API Well Number: 43047519600000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3
AMENDED REPORT ☐

APPLICATION FOR PERMIT TO DRILL

1. WELL NAME and NUMBER
NBU 1022-12J4BS

2. TYPE OF WORK
DRILL NEW WELL ● REENTER P&A WELL ○ DEEPEN WELL ○

3. FIELD OR WILDCAT
NATURAL BUTTES

4. TYPE OF WELL
Gas Well Coalbed Methane Well: NO

5. UNIT or COMMUNITIZATION AGREEMENT NAME
NATURAL BUTTES

6. NAME OF OPERATOR
KERR-MCGEE OIL & GAS ONSHORE, L.P.

7. OPERATOR PHONE
720 929-6515

8. ADDRESS OF OPERATOR
P.O. Box 173779, Denver, CO, 80217

9. OPERATOR E-MAIL
julie.jacobson@anadarko.com

10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)
UT ST UO 01997-A ST

11. MINERAL OWNERSHIP
FEDERAL ○ INDIAN ○ STATE ● FEE ○

12. SURFACE OWNERSHIP
FEDERAL ○ INDIAN ○ STATE ● FEE ○

13. NAME OF SURFACE OWNER (if box 12 = 'fee')

14. SURFACE OWNER PHONE (if box 12 = 'fee')

15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')

16. SURFACE OWNER E-MAIL (if box 12 = 'fee')

17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')

18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS
YES ● (Submit Commingling Application) NO ○

19. SLANT
VERTICAL ○ DIRECTIONAL ● HORIZONTAL ○

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	1249 FSL 2346 FEL	SWSE	12	10.0 S	22.0 E	S
Top of Uppermost Producing Zone	1740 FSL 1816 FEL	NWSE	12	10.0 S	22.0 E	S
At Total Depth	1740 FSL 1816 FEL	NWSE	12	10.0 S	22.0 E	S

21. COUNTY
UINTAH

22. DISTANCE TO NEAREST LEASE LINE (Feet)
1740

23. NUMBER OF ACRES IN DRILLING UNIT
1674

25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)
868

26. PROPOSED DEPTH
MD: 8532 TVD: 8427

27. ELEVATION - GROUND LEVEL
5240

28. BOND NUMBER
22013542

29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE
43-8496

Hole, Casing, and Cement Information

String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Surf	11	8.625	0 - 2170	28.0	J-55 LT&C	0.2	Type V	180	1.15	15.8
							Class G	270	1.15	15.8
Prod	7.875	4.5	0 - 8532	11.6	I-80 LT&C	12.5	Premium Lite High Strength	270	3.38	11.0
							50/50 Poz	1170	1.31	14.3

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES

- ☑ WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER
- ☑ COMPLETE DRILLING PLAN
- ☐ AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)
- ☐ FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
- ☑ DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)
- ☑ TOPOGRAPHICAL MAP

NAME Gina Becker | **TITLE** Regulatory Analyst II | **PHONE** 720 929-6086

SIGNATURE | **DATE** 09/13/2011 | **EMAIL** gina.becker@anadarko.com

API NUMBER ASSIGNED
43047519600000

APPROVAL

Permit Manager

RECEIVED: December 12, 2011

Kerr-McGee Oil & Gas Onshore. L.P.

NBU 1022-12J4BS

Surface: 1249 FSL / 2346 FEL SWSE
BHL: 1740 FSL / 1816 FEL NWSE

Section 12 T10S R22E

Uintah County, Utah
Mineral Lease: UT ST UO 01197-A ST

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. & 2. **Estimated Tops of Important Geologic Markers:**
Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

Formation	Depth	Resource
Uinta	0 - Surface	
Green River	1065	
Birds Nest	1330	Water
Mahogany	1724	Water
Wasatch	4090	Gas
Mesaverde	6245	Gas
MVU2	7223	Gas
MVL1	7765	Gas
TVD	8427	
TD	8532	

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the attached Drilling Program

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program

6. **Evaluation Program:**

Please refer to the attached Drilling Program

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7. Abnormal Conditions:

Maximum anticipated bottom hole pressure calculated at 8427' TVD, approximately equals 5,393 psi (0.64 psi/ft = actual bottomhole gradient)

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 3,528 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-
(0.22 psi/ft-partial evac gradient x TVD of next csg point))

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. Variances:

Please refer to the attached Drilling Program.
Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- *Blowout Prevention Equipment (BOPE) requirements;*
- *Mud program requirements; and*
- *Special drilling operation (surface equipment placement) requirements associated with air drilling.*

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

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Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 11 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 11 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements
The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements
Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements
Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and

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on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

10. Other Information:

Please refer to the attached Drilling Program.

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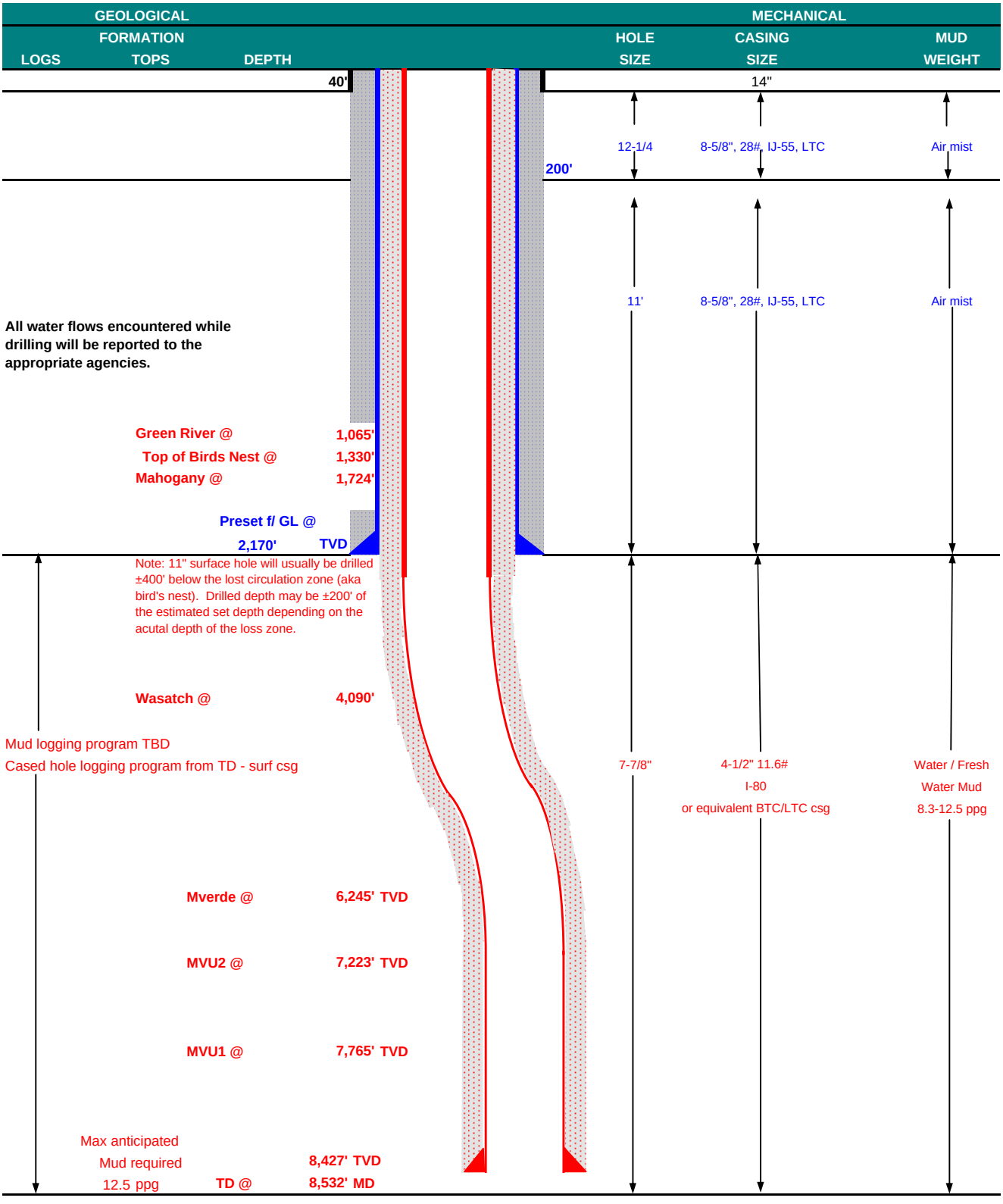
KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP		DATE	September 7, 2011	
WELL NAME	**NBU 1022-12J4BS**		TD	8,427' TVD	8,532' MD
FIELD	Natural Buttes	COUNTY Uintah	STATE Utah	FINISHED ELEVATION	5239.8
SURFACE LOCATION	SWSE	1249 FSL	2346 FEL	Sec 12 T 10S R 22E	
	Latitude: 39.959654	Longitude: -109.386557		NAD 27	
BTM HOLE LOCATION	NWSE	1740 FSL	1816 FEL	Sec 12 T 10S R 22E	
	Latitude: 39.960998	Longitude: -109.384662		NAD 27	
OBJECTIVE ZONE(S)	Wasatch/Mesaverde				
ADDITIONAL INFO	Regulatory Agencies: UDOGM (Minerals), UDOGM (Surface), UDOGM Tri-County Health Dept.				



KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL			WT.	GR.	CPLG.	DESIGN FACTORS BURST	COLLAPSE	LTC	BTC TENSION
CONDUCTOR	14"	0-40'									
								3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0	to	2,170	28.00	IJ-55	LTC	2.49	1.85	6.54	N/A
								7,780	6,350	279,000	367,000
PRODUCTION	4-1/2"	0	to	8,532	11.60	I-80	LTC/BTC	1.11	1.16	3.48	4.58

Surface Casing:

(Burst Assumptions: TD = 12.5 ppg) 0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 7000 psi) 0.64 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80	1.15
Option 1			+ 0.25 pps flocele				
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80	1.15
			+ 2% CaCl + 0.25 pps flocele				
SURFACE			**NOTE: If well will circulate water to surface, option 2 will be utilized**				
Option 2	LEAD	1,670'	65/35 Poz + 6% Gel + 10 pps gilsonite	160	35%	11.00	3.82
			+ 0.25 pps Flocele + 3% salt BWOW				
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80	1.15
			+ 0.25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	3,582'	Premium Lite II +0.25 pps	270	20%	11.00	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	4,950'	50/50 Poz/G + 10% salt + 2% gel	1,170	35%	14.30	1.31
			+ 0.1% R-3				

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

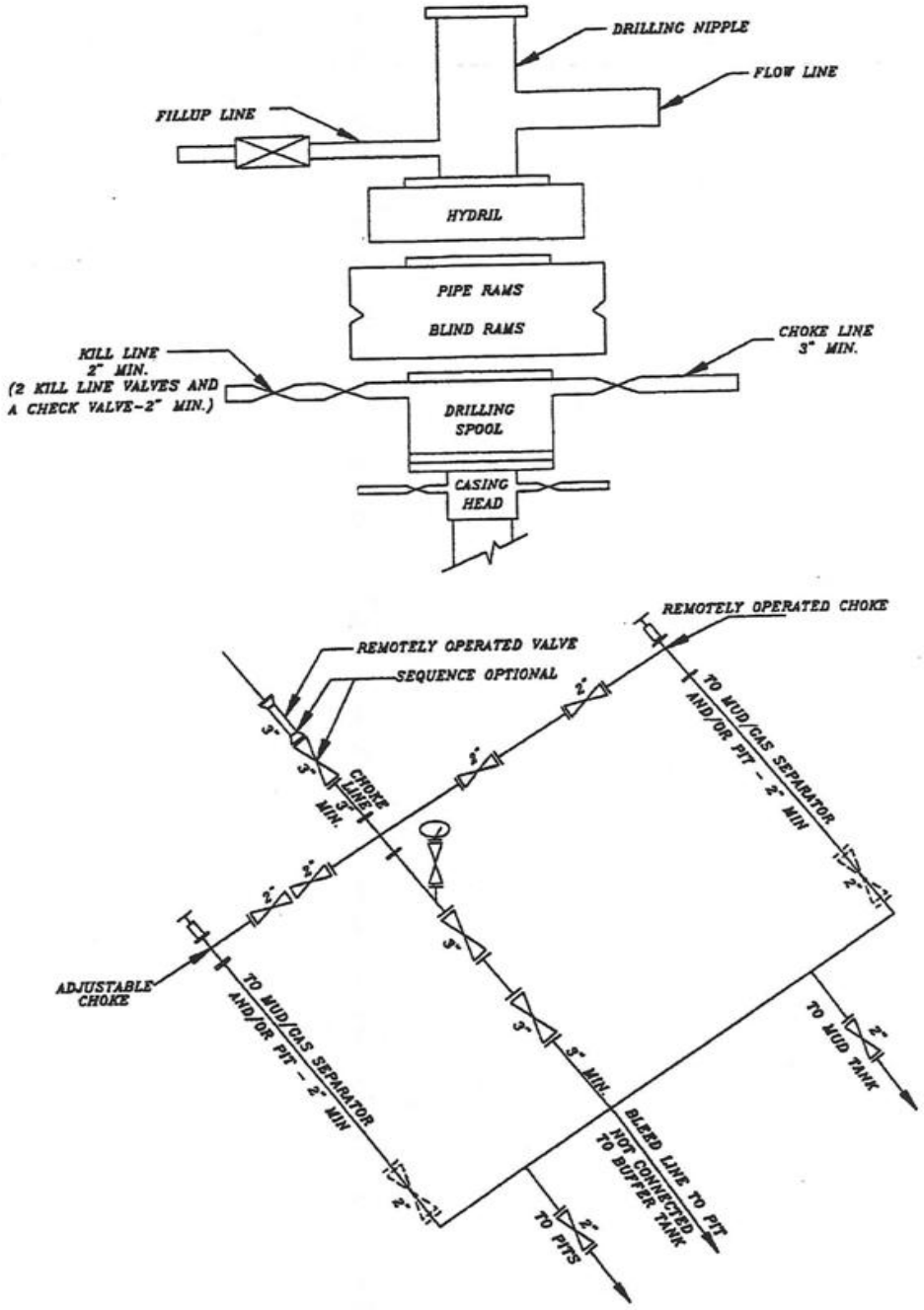
DRILLING ENGINEER: _____ **DATE:** _____

Nick Spence / Danny Showers

DRILLING SUPERINTENDENT: _____ **DATE:** _____

Kenny Gathings / Lovel Young

EXHIBIT A
NBU 1022-12J4BS

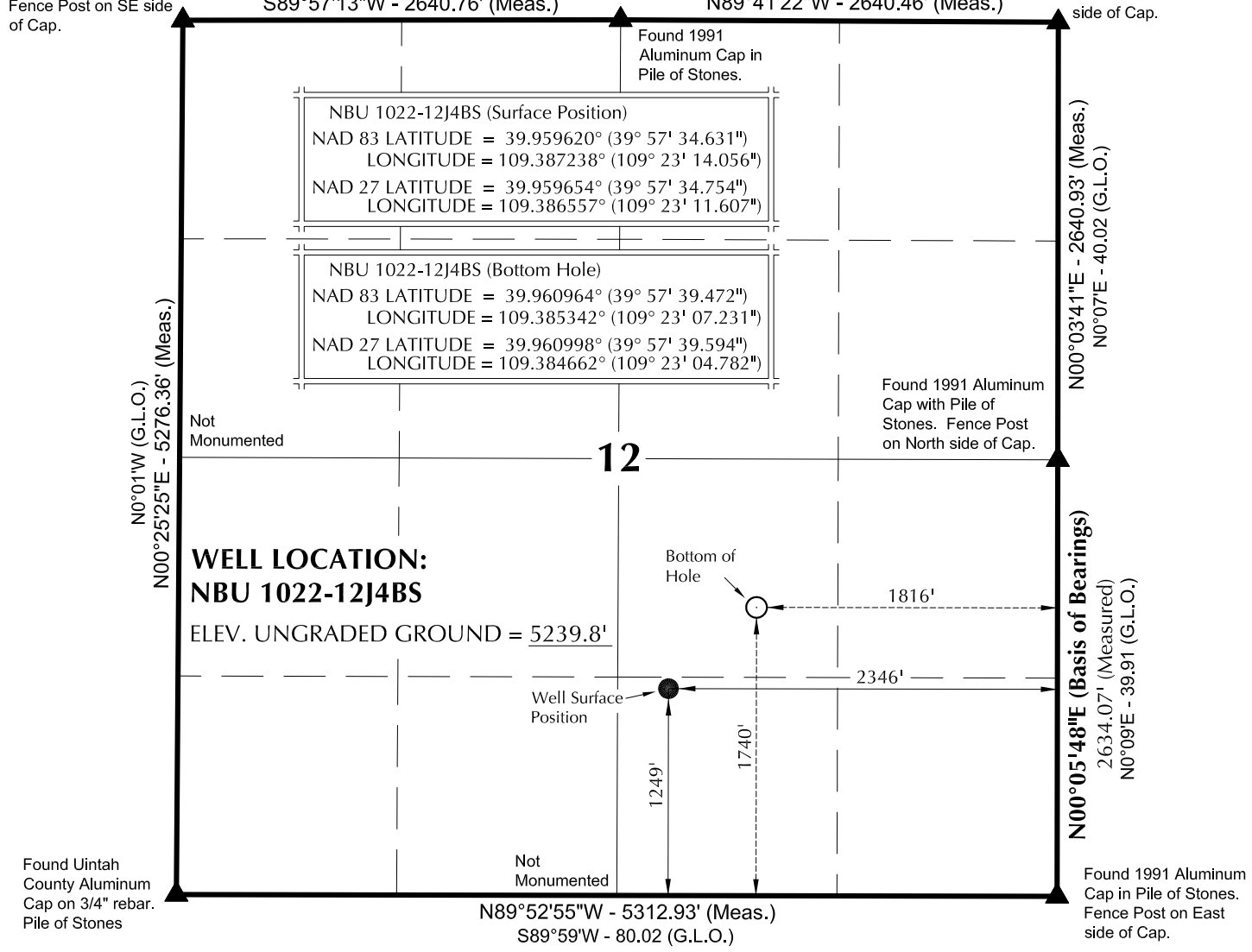


SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

RECEIVED: September 13, 2011

API Well Number: 43047519600000

T10S, R22E, S.L.B.&M.



NOTES:

▲ = Section Corners Located

1. Well footages are measured at right angles to the Section Lines.
2. G.L.O. distances are shown in feet or chains. 1 chain = 66 feet.
3. The Bottom of hole bears N47°17'15"E 722.88' from the Surface Position.
4. Bearings are based on Global Positioning Satellite observations.
5. Basis of elevation is Tri-Sta "Two Water" located in the NW ¼ of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.

N

1000' 500' 0 1000'

SCALE

SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

PROFESSIONAL LAND SURVEYOR No.6028691 JOHN R STAUGH STATE OF UTAH

PROFESSIONAL LAND SURVEYOR
REGISTRATION No. 6028691
STATE OF UTAH

2-7-11

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD: NBU 1022-12O

NBU 1022-12J4BS
WELL PLAT
1740' FSL, 1816' FEL (Bottom Hole)
NW ¼ SE ¼ OF SECTION 12, T10S, R22E, S.L.B.&M., UINTAH COUNTY, UTAH.

609 CONSULTING, LLC
2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 01-21-11	SURVEYED BY: R.Y.	SHEET NO: 5
DATE DRAWN: 02-03-11	DRAWN BY: E.M.S.	5 OF 18
SCALE: 1" = 1000'	Date Last Revised:	

API Well Number: 43047519600000

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27			NAD83		NAD27		
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	FOOTAGES	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	FOOTAGES
NBU 1022-12N4CS	39°57'34.307" 39.959530°	109°23'13.763" 109.387156°	39°57'34.430" 39.959564°	109°23'11.314" 109.386476°	1216' FSL 2323' FEL	39°57'24.799" 39.956889°	109°23'24.669" 109.390186°	39°57'24.922" 39.956923°	109°23'22.220" 109.389505°	251' FSL 2141' FWL
NBU 1022-12N4BS	39°57'34.388" 39.959552°	109°23'13.836" 109.387177°	39°57'34.511" 39.959586°	109°23'11.387" 109.386497°	1224' FSL 2329' FEL	39°57'28.050" 39.957792°	109°23'24.519" 109.390144°	39°57'28.172" 39.957826°	109°23'22.069" 109.389464°	580' FSL 2150' FWL
NBU 1022-12N1CS	39°57'34.469" 39.959575°	109°23'13.910" 109.387197°	39°57'34.592" 39.959609°	109°23'11.461" 109.386517°	1232' FSL 2335' FEL	39°57'31.320" 39.958700°	109°23'24.497" 109.390138°	39°57'31.443" 39.958734°	109°23'22.047" 109.389458°	911' FSL 2149' FWL
NBU 1022-12J4CS	39°57'34.550" 39.959597°	109°23'13.983" 109.387217°	39°57'34.673" 39.959631°	109°23'11.534" 109.386537°	1240' FSL 2341' FEL	39°57'36.201" 39.960056°	109°23'07.255" 109.385349°	39°57'36.324" 39.960090°	109°23'04.806" 109.384668°	1409' FSL 1817' FEL
NBU 1022-12J4BS	39°57'34.631" 39.959620°	109°23'14.056" 109.387238°	39°57'34.754" 39.959654°	109°23'11.607" 109.386557°	1249' FSL 2346' FEL	39°57'39.472" 39.960964°	109°23'07.231" 109.385342°	39°57'39.594" 39.960998°	109°23'04.782" 109.384662°	1740' FSL 1816' FEL
NBU 1022-12N1BS	39°57'34.713" 39.959642°	109°23'14.129" 109.387258°	39°57'34.836" 39.959677°	109°23'11.680" 109.386578°	1257' FSL 2352' FEL	39°57'34.590" 39.959608°	109°23'24.488" 109.390135°	39°57'34.713" 39.959642°	109°23'22.038" 109.389455°	1242' FSL 2147' FWL

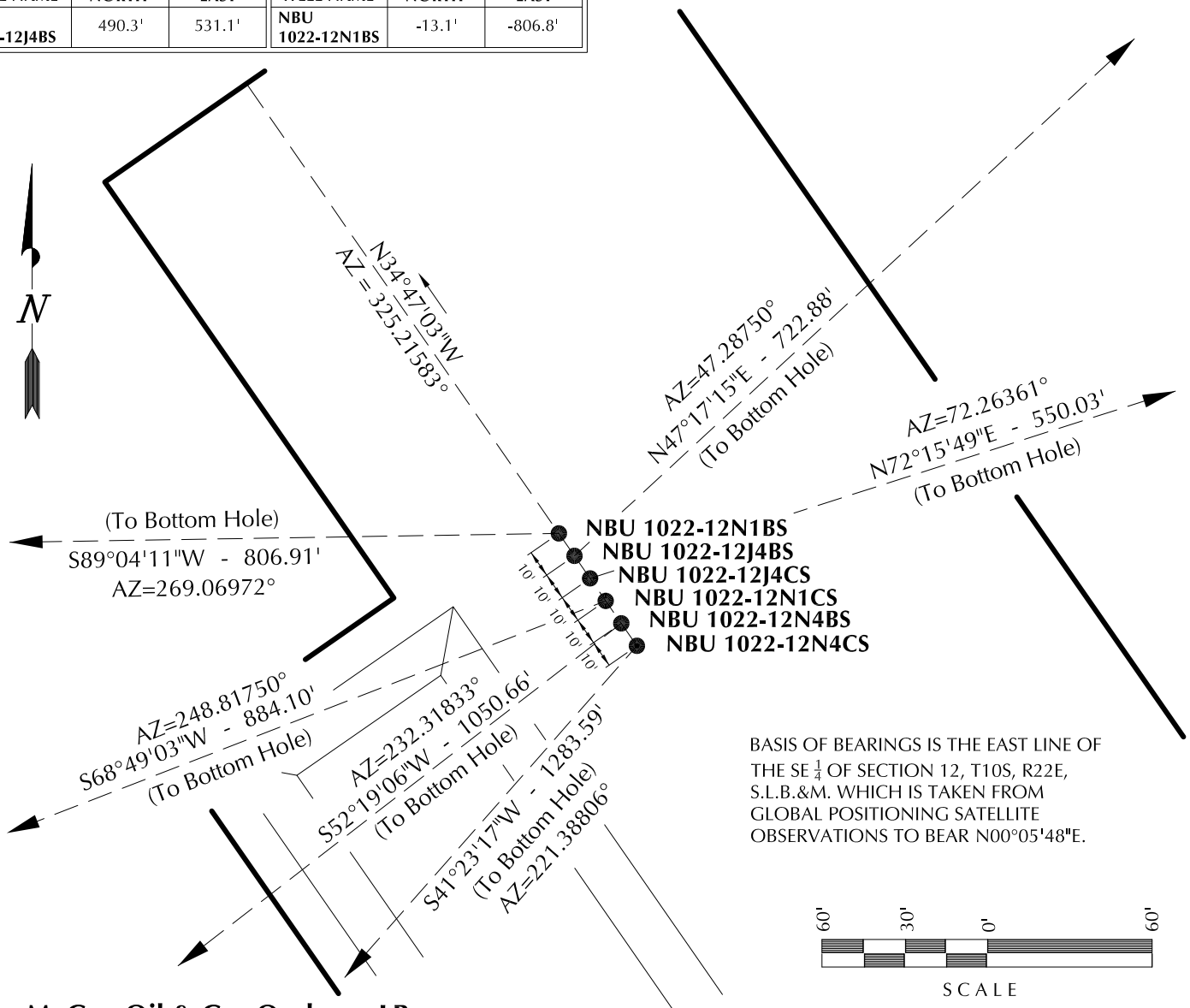
RELATIVE COORDINATES - From Surface Position to Bottom Hole

WELL NAME	NORTH	EAST
NBU 1022-12N4CS	-963.0'	-848.7'
NBU 1022-12J4BS	490.3'	531.1'

WELL NAME	NORTH	EAST
NBU 1022-12N4BS	-642.2'	-831.5'
NBU 1022-12N1BS	-13.1'	-806.8'

WELL NAME	NORTH	EAST
NBU 1022-12N1CS	-319.5'	-824.4'

WELL NAME	NORTH	EAST
NBU 1022-12J4CS	167.6'	523.9'



Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 1022-12O

WELL PAD INTERFERENCE PLAT
WELLS - NBU 1022-12N4CS, NBU 1022-12N4BS, NBU 1022-12N1CS, NBU 1022-12J4CS, NBU 1022-12J4BS & NBU 1022-12N1BS LOCATED IN SECTION 12, T10S, R22E, S.L.B.&M., UINTAH COUNTY, UTAH.

609 CONSULTING, LLC
2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

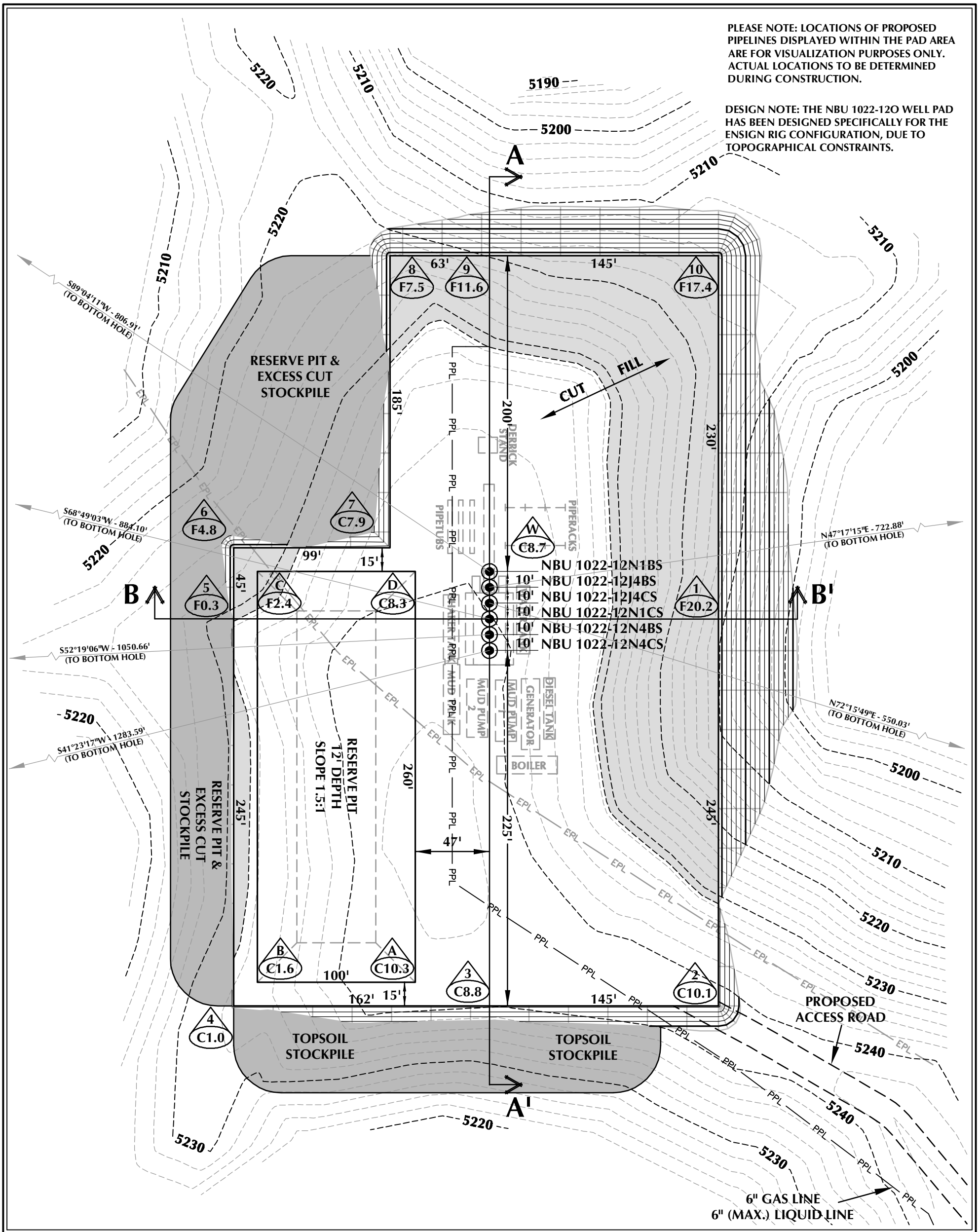
DATE SURVEYED: 01-21-11	SURVEYED BY: R.Y.	SHEET NO: 7
DATE DRAWN: 02-03-11	DRAWN BY: E.M.S.	7 OF 18
SCALE: 1" = 60'	Date Last Revised:	

RECEIVED: September 13, 2011

API Well Number: 43047519600000

PLEASE NOTE: LOCATIONS OF PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.

DESIGN NOTE: THE NBU 1022-12O WELL PAD HAS BEEN DESIGNED SPECIFICALLY FOR THE ENSIGN RIG CONFIGURATION, DUE TO TOPOGRAPHICAL CONSTRAINTS.



WELL PAD - NBU 1022-12O DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 5240.1'
FINISHED GRADE ELEVATION = 5231.4'
CUT SLOPES = 1.5:1
FILL SLOPES = 1.5:1
TOTAL WELL PAD AREA = 3.54 ACRES
TOTAL DAMAGE AREA = 5.84 ACRES
SHRINKAGE FACTOR = 1.10
SWELL FACTOR = 1.00

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 21,444 C.Y.
TOTAL FILL FOR WELL PAD = 20,227 C.Y.
TOPSOIL @ 6" DEPTH = 2,856 C.Y.
EXCESS MATERIAL = 1,217 C.Y.

RESERVE PIT QUANTITIES

TOTAL CUT FOR RESERVE PIT
+/- 8,870 C.Y.
RESERVE PIT CAPACITY (2' OF FREEBOARD)
+/- 33,770 BARRELS

WELL PAD - NBU 1022-12O

WELL PAD - LOCATION LAYOUT
NBU 1022-12N4CS, NBU 1022-12N4BS,
NBU 1022-12N1CS, NBU 1022-12J4CS,
NBU 1022-12J4BS & NBU 1022-12N1BS
LOCATED IN SECTION 12, T10S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

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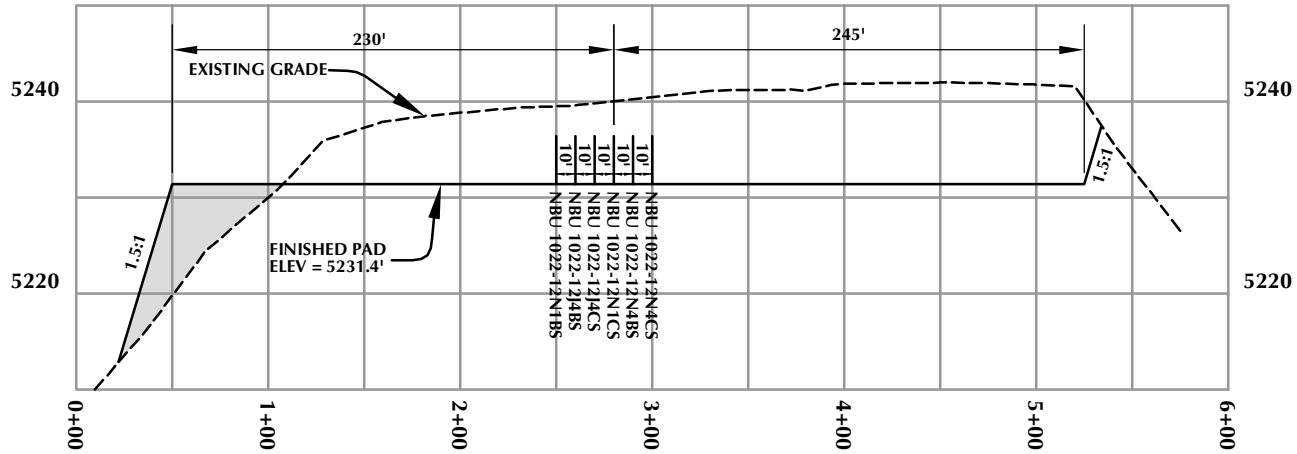
209 NORTH 300 WEST - VERNAL, UTAH 84078

WELL PAD LEGEND
- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL — PROPOSED PIPELINE
- EPL — EXISTING PIPELINE

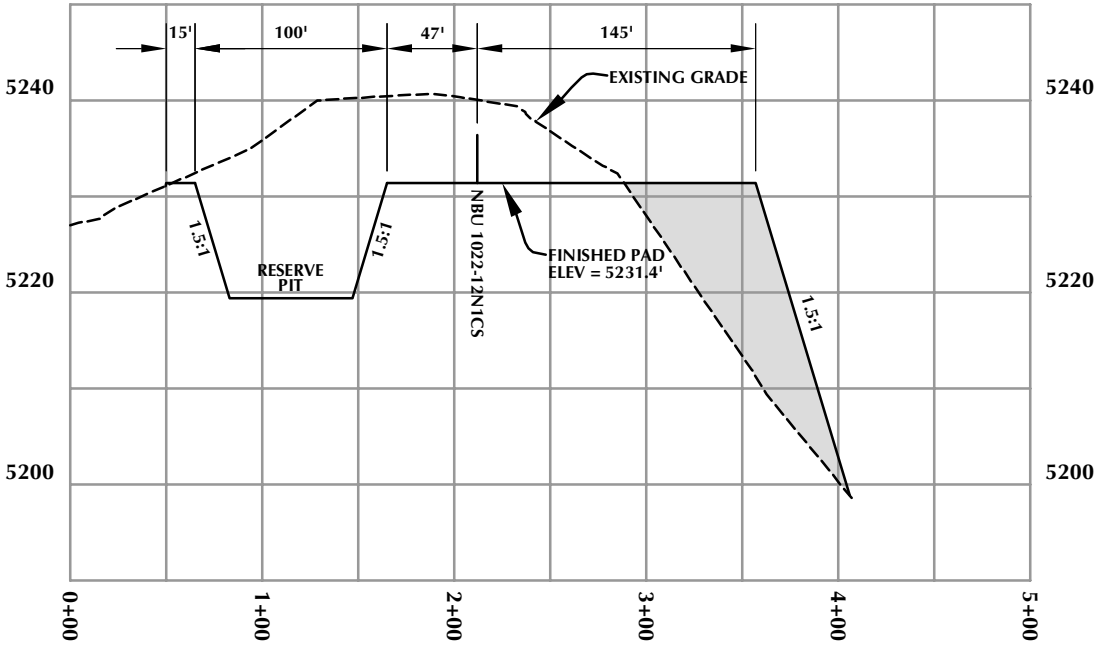
HORIZONTAL 0 30' 60' 1" = 60'
2' CONTOURS

SCALE: 1"=60'	DATE: 3/8/11	SHEET NO: 8
REVISED:		8 OF 18

K:\ANADARKO\2010_64_NBU_FOCUS_1022-12\DWG\NBU_1022-12O\NBU_1022_12O_PAD_20110126.dwg



CROSS SECTION A-A'



CROSS SECTION B-B'

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 1022-12O

WELL PAD - CROSS SECTIONS
NBU 1022-12N4CS, NBU 1022-12N4BS, NBU 1022-12N1CS, NBU 1022-12J4CS, NBU 1022-12J4BS & NBU 1022-12N1BS
LOCATED IN SECTION 12, T10S, R22E, S.L.B.&M., UINTAH COUNTY, UTAH

609
CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

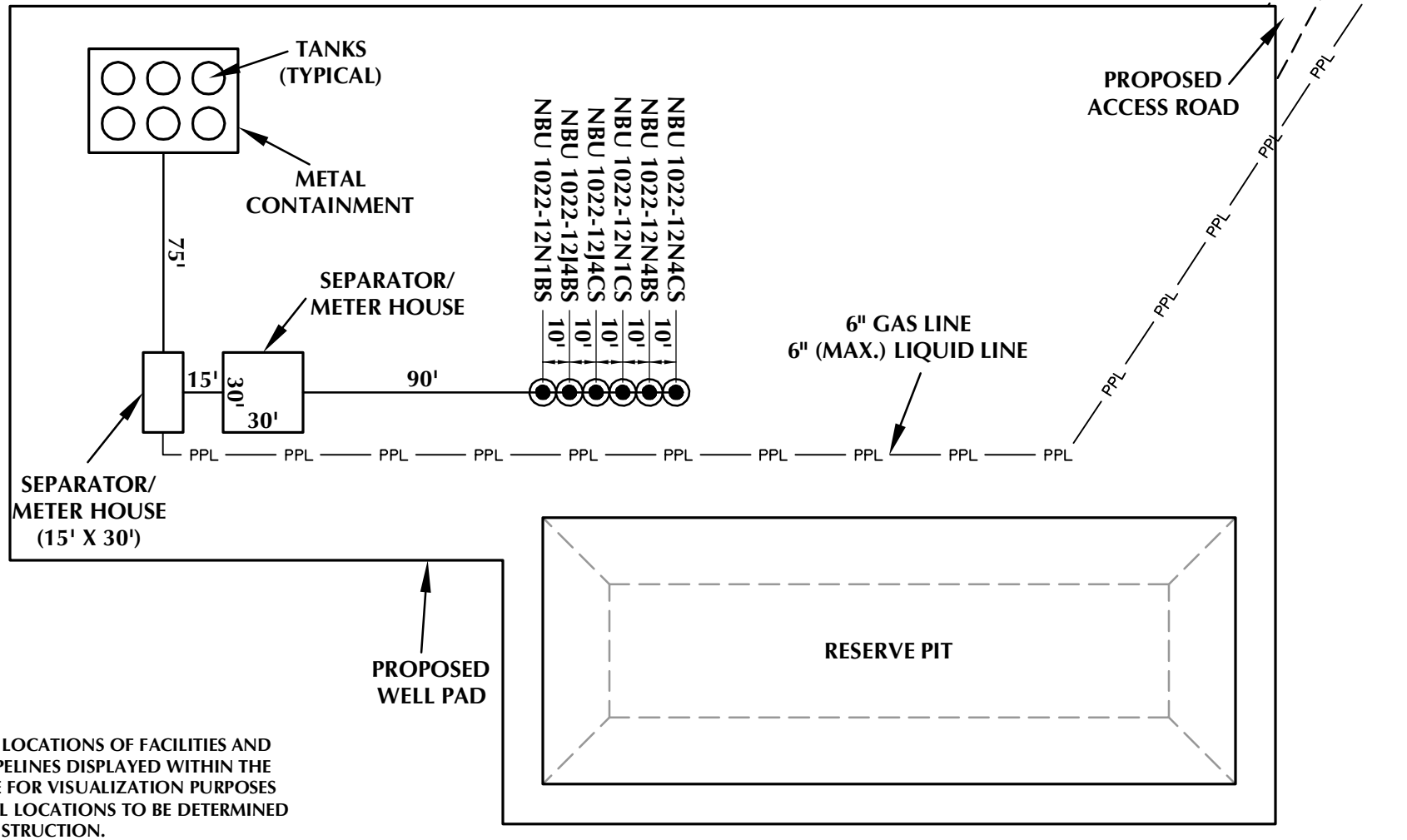
HORIZONTAL 0 50' 100' 1" = 100'
VERTICAL 0 10' 20' 1" = 20'

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

Scale: 1"=100' | Date: 3/8/11 | SHEET NO: 9 9 OF 18
REVISED:

K:\ANADARKO\2010_64_NBU_FOCUS_1022-12\DWG\NBU_1022-12O\NBU_1022_12O_PAD_20110126.dwg, 3/4/2011 8:42:43 AM

RECEIVED: September 13, 2011



PLEASE NOTE: LOCATIONS OF FACILITIES AND PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 1022-12O

WELL PAD - FACILITIES DIAGRAM
NBU 1022-12N4CS, NBU 1022-12N4BS, NBU 1022-12N1CS, NBU 1022-12J4CS, NBU 1022-12J4BS & NBU 1022-12N1BS
LOCATED IN SECTION 12, T10S, R22E, S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PPL — PROPOSED PIPELINE
- EPL — EXISTING PIPELINE

HORIZONTAL 0 30' 60' 1" = 60'

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

Scale: 1"=60' | Date: 3/8/11 | SHEET NO: 10 10 OF 18
REVISED:

K:\ANADARKO\2010_64_NBU_FOCUS_1022-12\DWG\NBU_1022-12O_PAD_20110126.dwg, 3/4/2011 8:44:32 AM

RECEIVED: September 13, 2011

API Well Number: 43047519600000

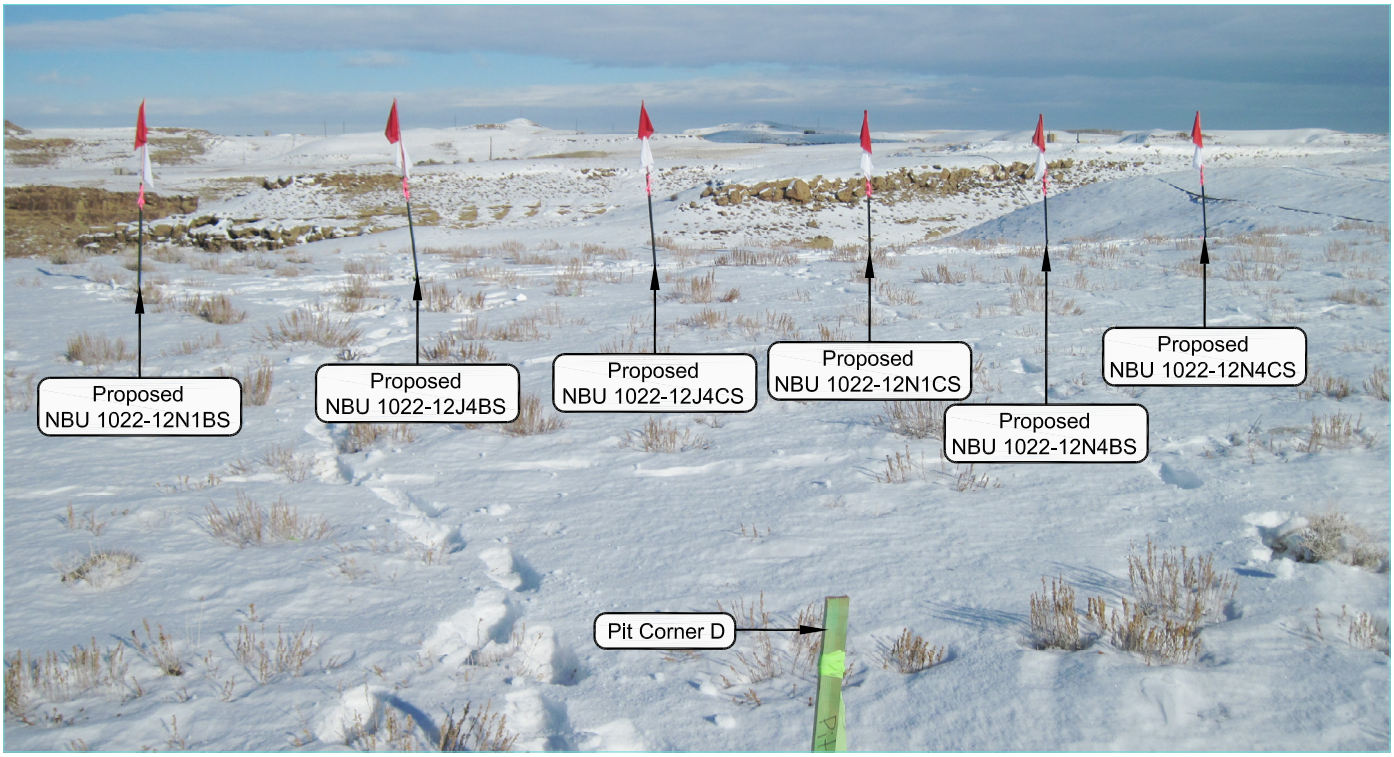


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE

CAMERA ANGLE: EASTERLY

PHOTO VIEW: FROM EXISTING ACCESS ROAD

CAMERA ANGLE: NORTHWESTERLY

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 1022-12O

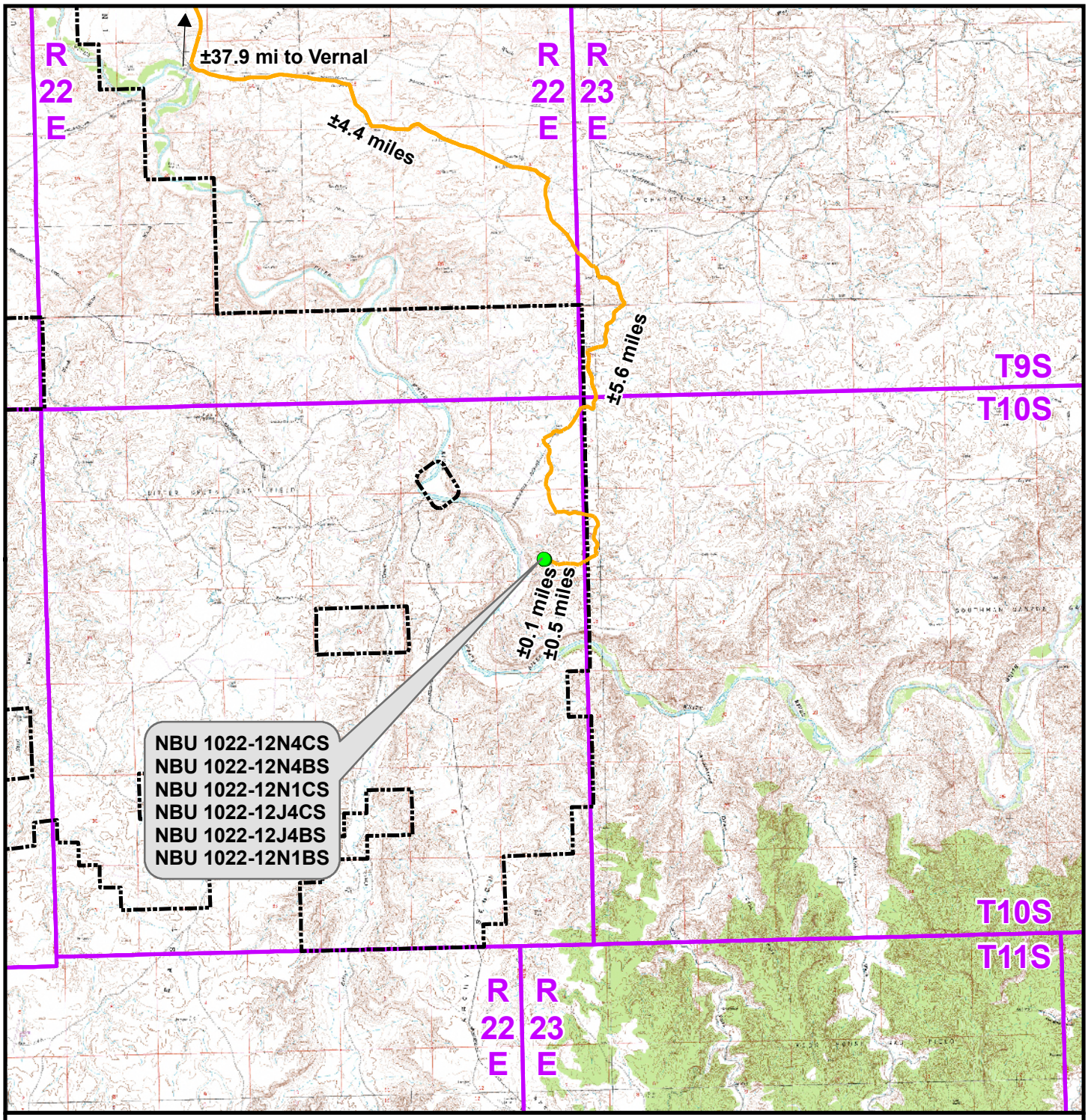
LOCATION PHOTOS
NBU 1022-12N4CS, NBU 1022-12N4BS, NBU 1022-12N1CS, NBU 1022-12J4CS, NBU 1022-12J4BS & NBU 1022-12N1BS
LOCATED IN SECTION 12, T10S, R22E, S.L.B.&M., UINTAH COUNTY, UTAH.

609 CONSULTING, LLC
2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE PHOTOS TAKEN: 01-21-11	PHOTOS TAKEN BY: R.Y.	SHEET NO: 11
DATE DRAWN: 02-03-11	DRAWN BY: E.M.S.	11 OF 18
Date Last Revised:		

API Well Number: 43047519600000



Legend

Distance From Well Pad - NBU 1022-12O To Unit Boundary: ±2,323ft

Proposed Well Location

Natural Buttes Unit Boundary

Access Route - Proposed

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 1022-12O

TOPO A

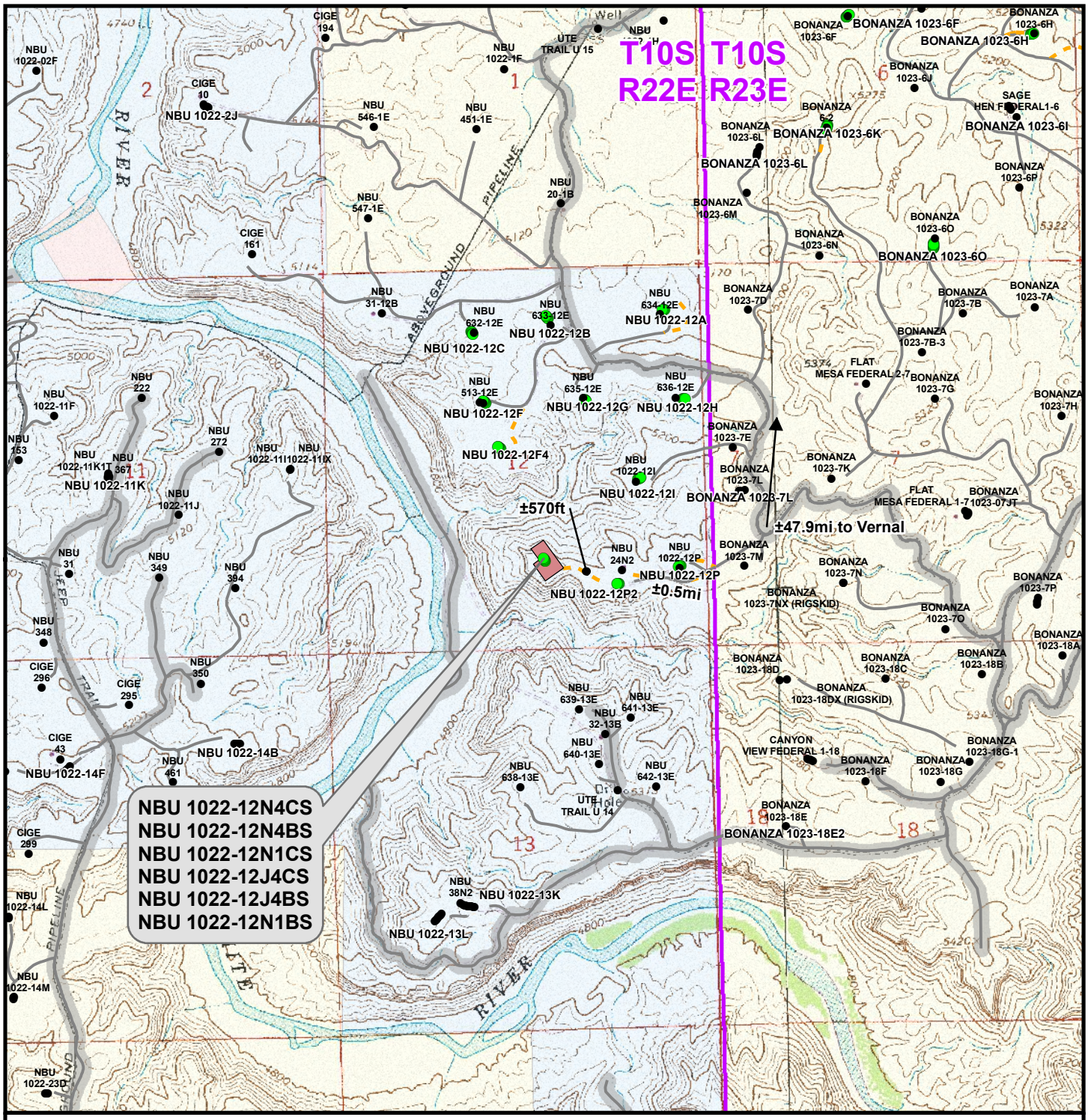
NBU 1022-12N4CS, NBU 1022-12N4BS, NBU 1022-12N1CS, NBU 1022-12J4CS, NBU 1022-12J4BS & NBU 1022-12N1BS LOCATED IN SECTION 12, T10S, R22E, S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

N

Scale: 1:100,000	NAD83 USP Central	Sheet No: 12 of 18
Drawn: TL	Date: 8 Mar 2011	
Revised:	Date:	

API Well Number: 43047519600000



Legend

Total Proposed Road Length: ±570ft

- Well - Proposed
- Well - Existing
- Well Pad
- Road - Proposed
- Road - Existing
- County Road
- Bureau of Land Management
- Indian Reservation
- State
- Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 1022-12O

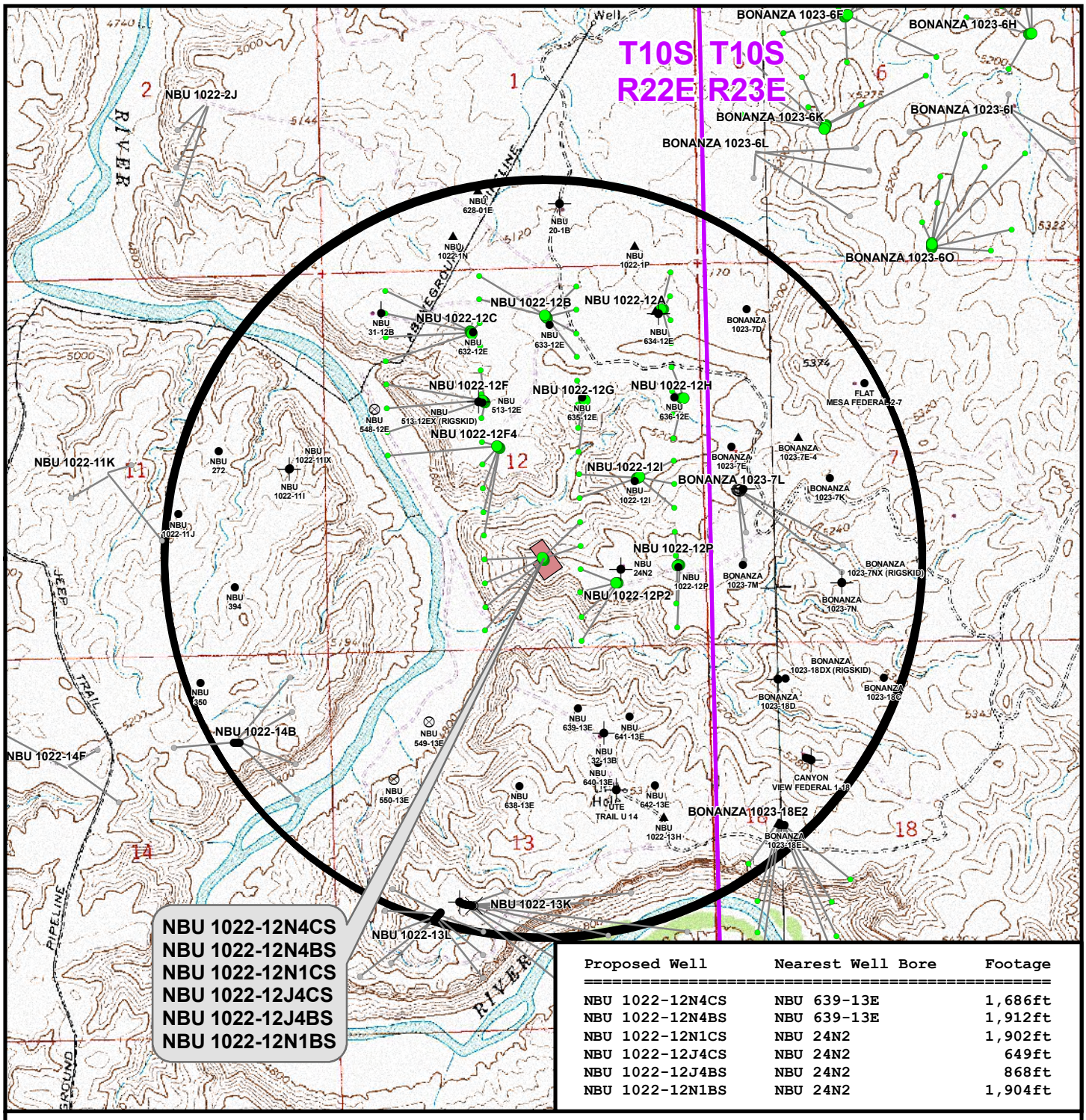
TOPO B
NBU 1022-12N4CS, NBU 1022-12N4BS,
NBU 1022-12N1CS, NBU 1022-12J4CS,
NBU 1022-12J4BS & NBU 1022-12N1BS
LOCATED IN SECTION 12, T10S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

N

Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No: 13	13 of 18
Drawn: TL	Date: 8 Mar 2011		
Revised:	Date:		

API Well Number: 43047519600000



Proposed Well	Nearest Well Bore	Footage
NBU 1022-12N4CS	NBU 639-13E	1,686ft
NBU 1022-12N4BS	NBU 639-13E	1,912ft
NBU 1022-12N1CS	NBU 24N2	1,902ft
NBU 1022-12J4CS	NBU 24N2	649ft
NBU 1022-12J4BS	NBU 24N2	868ft
NBU 1022-12N1BS	NBU 24N2	1,904ft

Well locations derived from State of Utah, Dept. of Natural Resources, Division of Oil, Gas and Mining

Legend

- Well - Proposed
- Well Path
- Bottom Hole - Proposed
- Bottom Hole - Existing
- Well Pad
- Well - 1 Mile Radius

- Producing
- Active
- Spudded (Drilling commenced: Not yet completed)
- Approved permit (APD); not yet spudded
- New Permit (Not yet approved or drilled)
- Inactive
- Drilling Operations Suspended
- Temporarily-Abandoned
- Shut-In
- Plugged and Abandoned
- Location Abandoned
- Dry hole marker, buried
- Returned APD (Unapproved)

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 1022-12O

TOPO C
NBU 1022-12N4CS, NBU 1022-12N4BS,
NBU 1022-12N1CS, NBU 1022-12J4CS,
NBU 1022-12J4BS & NBU 1022-12N1BS
LOCATED IN SECTION 12, T10S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

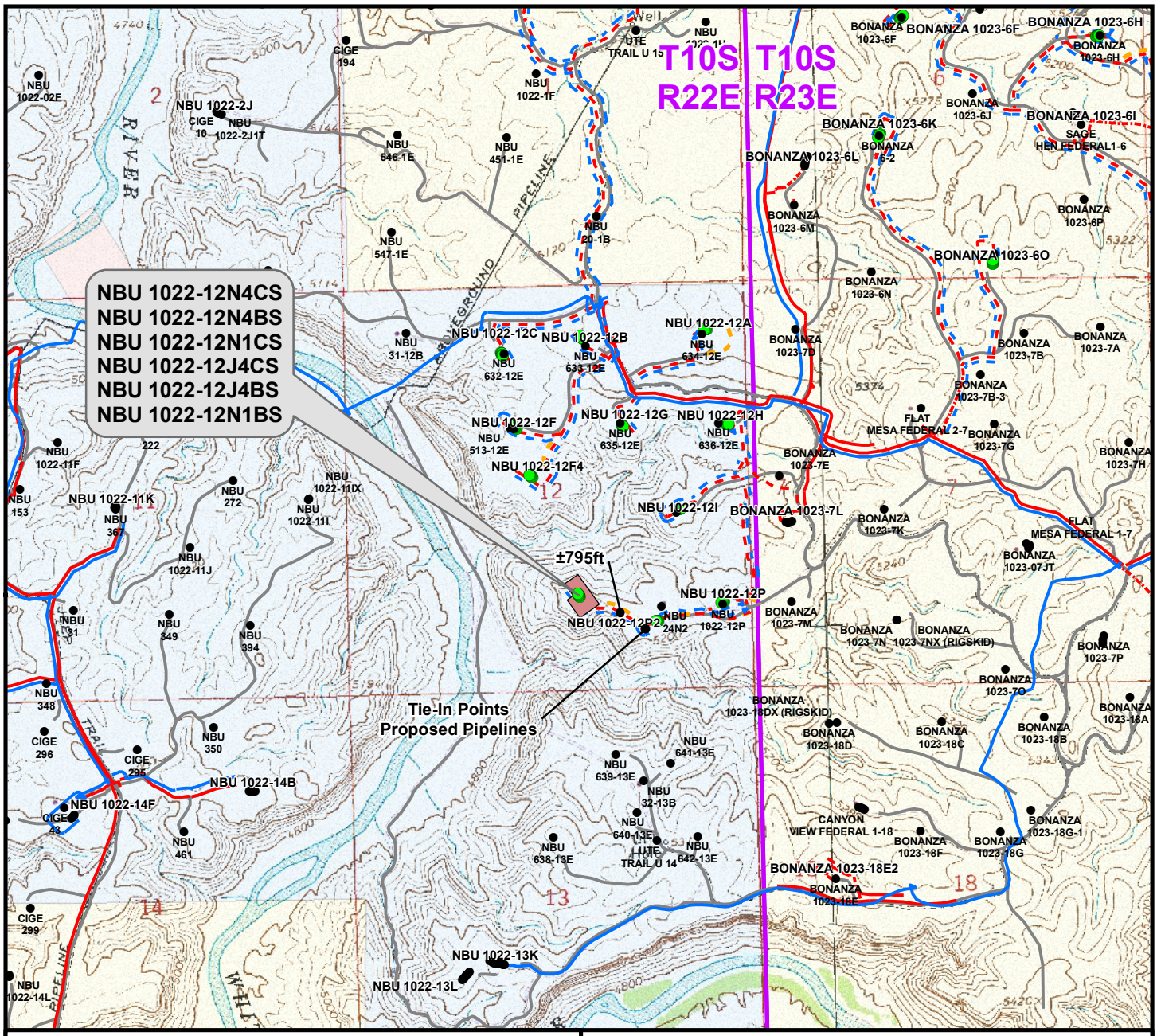
609 CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

N

Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No: 14 of 18	
Drawn: TL	Date: 8 Mar 2011		
Revised:	Date:		

RECEIVED: September 13, 2011

API Well Number: 43047519600000



Proposed Liquid Pipeline	Length
Proposed 6" (Max.) (Meter House to Edge of Pad)	±505ft
Proposed 6" (Max.) (Edge of Pad to 12P2 Intersection)	±795ft
TOTAL PROPOSED LIQUID PIPELINE =	±1,300ft

Proposed Gas Pipeline	Length
Proposed 6" (Meter House to Edge of Pad)	±505ft
Proposed 6" (Edge of Pad to 12P2 Intersection)	±795ft
TOTAL PROPOSED GAS PIPELINE =	±1,300ft

Legend

- Well - Proposed
- Well - Existing
- Well Pad
- Gas Pipeline - Proposed
- Gas Pipeline - To Be Upgraded
- Gas Pipeline - Existing
- Liquid Pipeline - Proposed
- Liquid Pipeline - Existing
- Road - Proposed
- Road - Existing
- Bureau of Land Management
- Indian Reservation
- State
- Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 1022-12O

TOPO D
NBU 1022-12N4CS, NBU 1022-12N4BS,
NBU 1022-12N1CS, NBU 1022-12J4CS,
NBU 1022-12J4BS & NBU 1022-12N1BS
LOCATED IN SECTION 12, T10S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

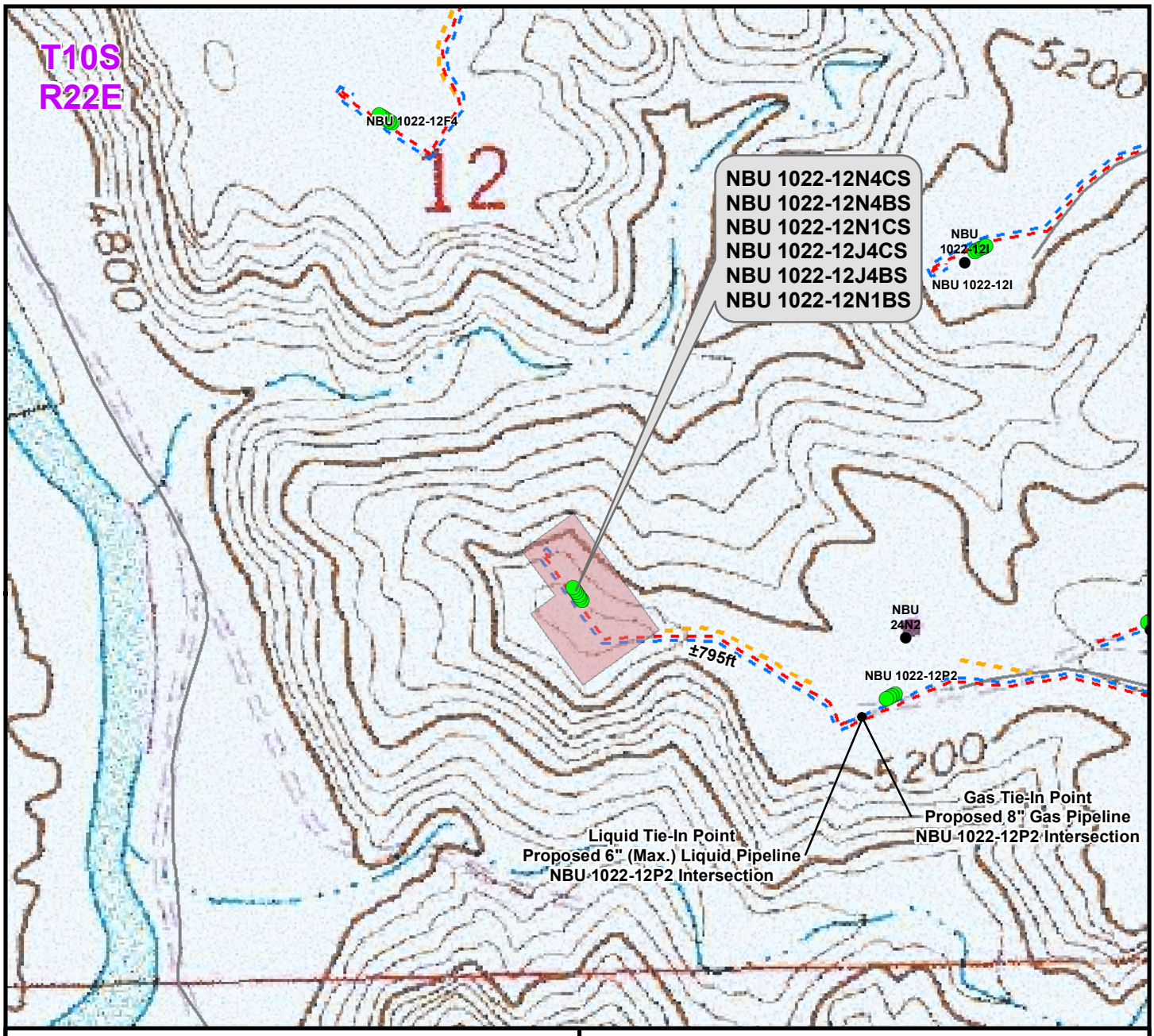
609 CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

N

Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No: 15 of 18
Drawn: TL	Date: 8 Mar 2011	
Revised:	Date:	

RECEIVED: September 13, 2011

API Well Number: 43047519600000



Proposed Liquid Pipeline	Length
Proposed 6"(Max.) (Meter House to Edge of Pad)	±505ft
Proposed 6"(Max.) (Edge of Pad to 12P2 Intersection)	±795ft
TOTAL PROPOSED LIQUID PIPELINE =	±1,300ft

Proposed Gas Pipeline	Length
Proposed 6" (Meter House to Edge of Pad)	±505ft
Proposed 6" (Edge of Pad to 12P2 Intersection)	±795ft
TOTAL PROPOSED GAS PIPELINE =	±1,300ft

Legend

Well - Proposed; Well Pad; Gas Pipeline - Proposed; Liquid Pipeline - Proposed; Road - Proposed; Bureau of Land Management

Well - Existing; Gas Pipeline - To Be Upgraded; Liquid Pipeline - Existing; Road - Existing; Indian Reservation

Gas Pipeline - Existing; State

Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 1022-12O

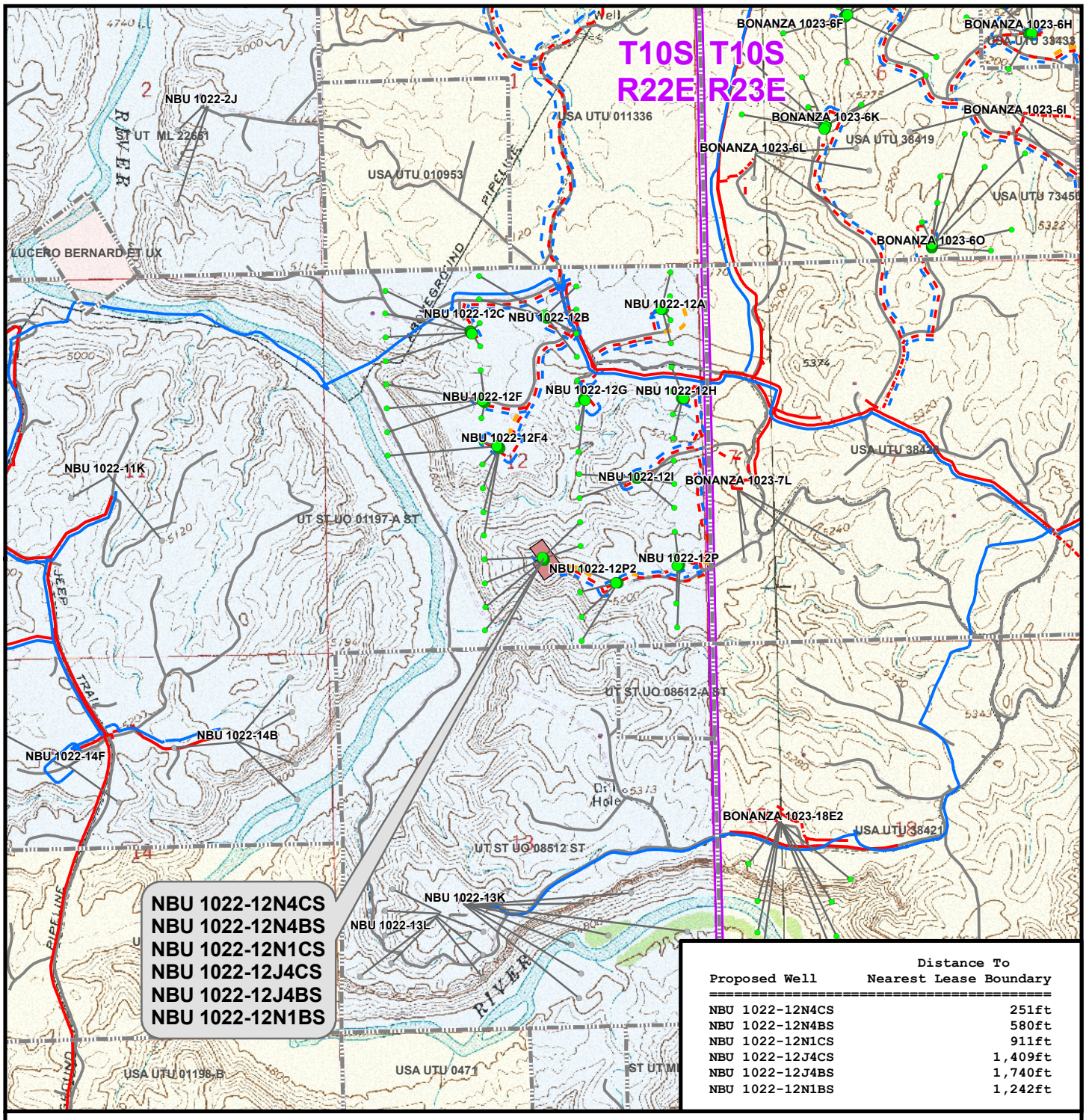
TOPO D2 (PAD & PIPELINE DETAIL)
NBU 1022-12N4CS, NBU 1022-12N4BS,
NBU 1022-12N1CS, NBU 1022-12J4CS,
NBU 1022-12J4BS & NBU 1022-12N1BS
LOCATED IN SECTION 12, T10S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

N

Scale: 1" = 500ft	NAD83 USP Central	Sheet No: 16 of 18
Drawn: TL	Date: 8 Mar 2011	
Revised:	Date:	

API Well Number: 43047519600000



Proposed Well	Distance To Nearest Lease Boundary
NBU 1022-12N4CS	251ft
NBU 1022-12N4BS	580ft
NBU 1022-12N1CS	911ft
NBU 1022-12J4CS	1,409ft
NBU 1022-12J4BS	1,740ft
NBU 1022-12N1BS	1,242ft

Legend

- Well - Proposed
- Bottom Hole - Proposed
- Bottom Hole - Existing
- Well Path
- Well Pad
- Lease Boundary
- Gas Pipeline - Proposed
- Gas Pipeline - To Be Upgraded
- Gas Pipeline - Existing
- Liquid Pipeline - Proposed
- Liquid Pipeline - Existing
- Road - Proposed
- Road - Existing
- Bureau of Land Management
- Indian Reservation
- State
- Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 1022-12O

TOPO E
NBU 1022-12N4CS, NBU 1022-12N4BS,
NBU 1022-12N1CS, NBU 1022-12J4CS,
NBU 1022-12J4BS & NBU 1022-12N1BS
LOCATED IN SECTION 12, T10S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

N

Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:	
Drawn: TL	Date: 8 Mar 2011	17	17 of 18
Revised:	Date:		

RECEIVED: September 13, 2011

Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – NBU 1022-12O
WELLS – NBU 1022-12N4CS, NBU 1022-12N4BS, NBU 1022-12N1CS, NBU 1022-12J4CS, NBU 1022-12J4BS & NBU 1022-12N1BS
Section 12, T10S, R22E, S.L.B.&M.

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah, proceed in an easterly, then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45. Exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 14.4 miles to the intersection of the Fidlar Road (County B Road 3410) which road intersection is approximately 400 feet northeast of the Mountain Fuel Bridge at the White River. Exit left and proceed in a southeasterly direction along the Fidlar Road approximately 4.4 miles to the intersection of the Seven Sisters Road (County B Road 3420). Exit right and proceed in a southeasterly, then southerly direction along the Seven Sisters Road approximately 5.6 miles to a service road to the southwest. Exit right and proceed in a southwesterly, then westerly direction along the service road approximately 0.5 miles to the proposed access road. Follow road flags in a westerly direction approximately 570 feet to the proposed well location.

Total distance from Vernal, Utah to the proposed well location is approximately 48.5 miles in a southerly direction.

RECEIVED: September 13, 2011

API Well Number: 43047519600000

Scientific Drilling
Rocky Mountain Operations

Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: NBU 1022-12O PAD
Well: NBU 1022-12J4BS
Wellbore: OH
Design: PLAN #1 PRELIMINARY

Anadarko Petroleum Corporation

T M

Azimuths to True North
Magnetic North: 11.00°

Magnetic Field
Strength: 52301.2snT
Dip Angle: 65.85°
Date: 08/26/2011
Model: IGRF2010

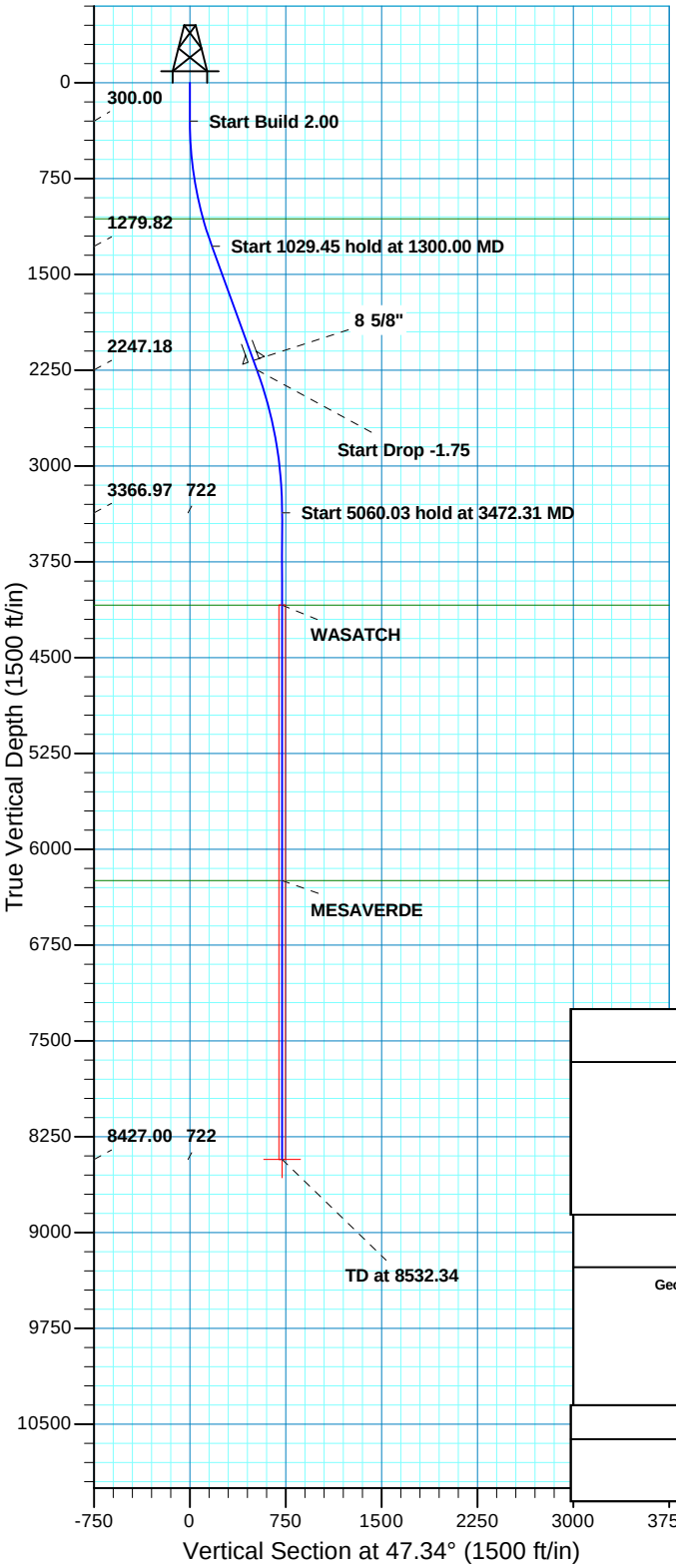
WELL DETAILS: NBU 1022-12J4BS

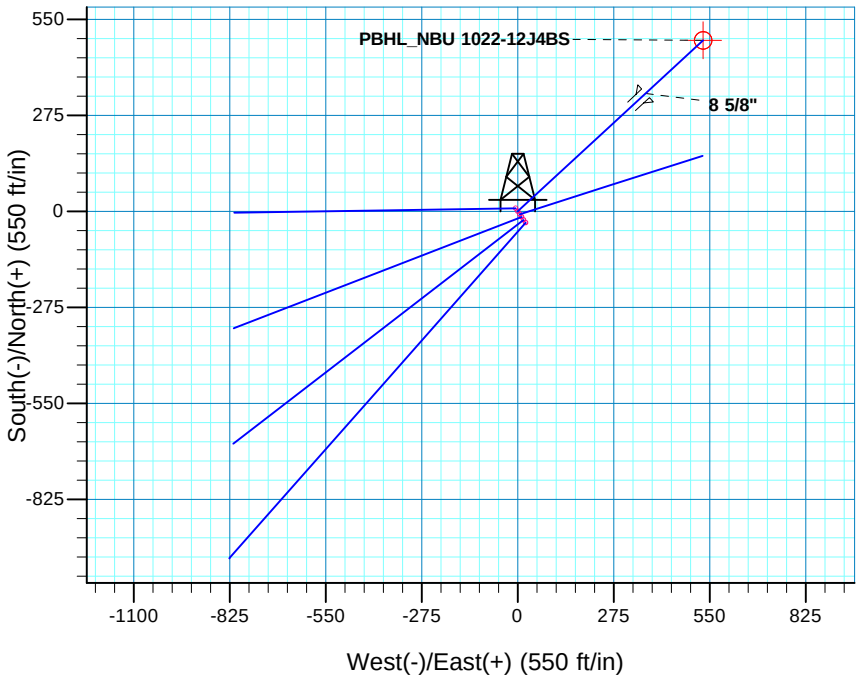
GL 5231 & KB 4 @ 5235.00ft (ASSUMED)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14515442.24	2092551.18	39° 57' 34.754 N	109° 23' 11.605 W

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	8427.00	489.51	531.14	14515941.28	2093073.38	39° 57' 39.593 N	109° 23' 4.783 W	Circle (Radius: 25.00)
	- plan hits target center							





SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
1300.00	20.00	47.34	1279.82	117.09	127.04	2.00	47.34	172.77	
2329.45	20.00	47.34	2247.18	355.70	385.95	0.00	0.00	524.86	
3472.31	0.00	0.00	3366.97	489.51	531.14	1.75	180.00	722.31	
8532.34	0.00	0.00	8427.00	489.51	531.14	0.00	0.00	722.31	PBHL_NBU 1022-12J4BS

PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N

Geodetic System: Universal Transverse Mercator (US Survey Feet)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: Zone 12N (114 W to 108 W)
Location: SECTION 12 T10S R22E
System Datum: Mean Sea Level

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1065.00	1074.40	GREEN RIVER
4090.00	4195.34	WASATCH
6245.00	6350.34	MESAVERDE

CASING DETAILS

TVD	MD	Name	Size
2174.00	2251.57	8 5/8"	8.625

Plan: PLAN #1 PRELIMINARY (NBU 1022-12J4BS/OH)

Created By: RobertScott Date: 11:45, September 07 2011

Scientific Drilling
Rocky Mountain Operations

US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N
NBU 1022-12O PAD
NBU 1022-12J4BS

OH

Plan: PLAN #1 PRELIMINARY

Standard Planning Report

07 September, 2011

Anadarko
Petroleum Corporation

RECEIVED: September 13, 2011

Scientific Drilling
Rocky Mountain Operations

SDI
Planning Report

Anadarko Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well NBU 1022-12J4BS
Company:	US ROCKIES REGION PLANNING	**TVD Reference:**	GL 5231 & KB 4 @ 5235.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	GL 5231 & KB 4 @ 5235.00ft (ASSUMED)
Site:	NBU 1022-12O PAD	**North Reference:**	True
Well:	NBU 1022-12J4BS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Project UTAH - UTM (feet), NAD27, Zone 12N

Map System:	Universal Transverse Mercator (US Survey Feet)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 12N (114 W to 108 W)		

Site NBU 1022-12O PAD, SECTION 12 T10S R22E

Site Position:		**Northing:**	14,515,442.24 usft	**Latitude:**	39° 57' 34.754 N
From:	Lat/Long	**Easting:**	2,092,551.18 usft	**Longitude:**	109° 23' 11.605 W
Position Uncertainty:	0.00 ft	**Slot Radius:**	13.200 in	**Grid Convergence:**	1.04 °

Well NBU 1022-12J4BS, 1249 FSL 2346 FEL

Well Position	**+N/-S**	0.00 ft	**Northing:**	14,515,442.24 usft	**Latitude:**	39° 57' 34.754 N
	+E/-W	0.00 ft	**Easting:**	2,092,551.18 usft	**Longitude:**	109° 23' 11.605 W
Position Uncertainty		0.00 ft	**Wellhead Elevation:**		**Ground Level:**	5,231.00 ft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	08/26/11	11.00	65.85	52,301

Design PLAN #1 PRELIMINARY

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	47.34

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,300.00	20.00	47.34	1,279.82	117.09	127.04	2.00	2.00	0.00	47.34	
2,329.45	20.00	47.34	2,247.18	355.70	385.95	0.00	0.00	0.00	0.00	
3,472.31	0.00	0.00	3,366.97	489.51	531.14	1.75	-1.75	0.00	180.00	
8,532.34	0.00	0.00	8,427.00	489.51	531.14	0.00	0.00	0.00	0.00	PBHL_NBU 1022-12J

Scientific Drilling
Rocky Mountain Operations

SDI
Planning Report

Anadarko Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well NBU 1022-12J4BS
Company:	US ROCKIES REGION PLANNING	**TVD Reference:**	GL 5231 & KB 4 @ 5235.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	GL 5231 & KB 4 @ 5235.00ft (ASSUMED)
Site:	NBU 1022-12O PAD	**North Reference:**	True
Well:	NBU 1022-12J4BS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
400.00	2.00	47.34	399.98	1.18	1.28	1.75	2.00	2.00	0.00
500.00	4.00	47.34	499.84	4.73	5.13	6.98	2.00	2.00	0.00
600.00	6.00	47.34	599.45	10.64	11.54	15.69	2.00	2.00	0.00
700.00	8.00	47.34	698.70	18.89	20.50	27.88	2.00	2.00	0.00
800.00	10.00	47.34	797.47	29.50	32.00	43.52	2.00	2.00	0.00
900.00	12.00	47.34	895.62	42.43	46.03	62.60	2.00	2.00	0.00
1,000.00	14.00	47.34	993.06	57.67	62.57	85.10	2.00	2.00	0.00
1,074.40	15.49	47.34	1,065.00	70.50	76.50	104.03	2.00	2.00	0.00
GREEN RIVER									
1,100.00	16.00	47.34	1,089.64	75.21	81.61	110.98	2.00	2.00	0.00
1,200.00	18.00	47.34	1,185.27	95.02	103.10	140.21	2.00	2.00	0.00
1,300.00	20.00	47.34	1,279.82	117.09	127.04	172.77	2.00	2.00	0.00
Start 1029.45 hold at 1300.00 MD									
1,400.00	20.00	47.34	1,373.78	140.26	152.19	206.97	0.00	0.00	0.00
1,500.00	20.00	47.34	1,467.75	163.44	177.34	241.17	0.00	0.00	0.00
1,600.00	20.00	47.34	1,561.72	186.62	202.49	275.37	0.00	0.00	0.00
1,700.00	20.00	47.34	1,655.69	209.80	227.64	309.58	0.00	0.00	0.00
1,800.00	20.00	47.34	1,749.66	232.98	252.79	343.78	0.00	0.00	0.00
1,900.00	20.00	47.34	1,843.63	256.16	277.94	377.98	0.00	0.00	0.00
2,000.00	20.00	47.34	1,937.60	279.34	303.09	412.18	0.00	0.00	0.00
2,100.00	20.00	47.34	2,031.57	302.52	328.24	446.38	0.00	0.00	0.00
2,200.00	20.00	47.34	2,125.54	325.70	353.39	480.59	0.00	0.00	0.00
2,251.57	20.00	47.34	2,174.00	337.65	366.36	498.22	0.00	0.00	0.00
8 5/8"									
2,300.00	20.00	47.34	2,219.51	348.87	378.54	514.79	0.00	0.00	0.00
2,329.45	20.00	47.34	2,247.18	355.70	385.95	524.86	0.00	0.00	0.00
Start Drop -1.75									
2,400.00	18.77	47.34	2,313.73	371.57	403.16	548.27	1.75	-1.75	0.00
2,500.00	17.02	47.34	2,408.89	392.39	425.75	578.99	1.75	-1.75	0.00
2,600.00	15.27	47.34	2,504.95	411.23	446.19	606.79	1.75	-1.75	0.00
2,700.00	13.52	47.34	2,601.81	428.07	464.47	631.64	1.75	-1.75	0.00
2,800.00	11.77	47.34	2,699.38	442.90	480.56	653.52	1.75	-1.75	0.00
2,900.00	10.02	47.34	2,797.57	455.70	494.45	672.42	1.75	-1.75	0.00
3,000.00	8.27	47.34	2,896.30	466.47	506.13	688.30	1.75	-1.75	0.00
3,100.00	6.52	47.34	2,995.47	475.18	515.59	701.16	1.75	-1.75	0.00
3,200.00	4.77	47.34	3,094.98	481.84	522.82	710.99	1.75	-1.75	0.00
3,300.00	3.02	47.34	3,194.74	486.44	527.80	717.78	1.75	-1.75	0.00
3,400.00	1.27	47.34	3,294.67	488.97	530.55	721.51	1.75	-1.75	0.00
3,472.31	0.00	0.00	3,366.97	489.51	531.14	722.31	1.75	-1.75	0.00
Start 5060.03 hold at 3472.31 MD									
3,500.00	0.00	0.00	3,394.66	489.51	531.14	722.31	0.00	0.00	0.00
3,600.00	0.00	0.00	3,494.66	489.51	531.14	722.31	0.00	0.00	0.00
3,700.00	0.00	0.00	3,594.66	489.51	531.14	722.31	0.00	0.00	0.00
3,800.00	0.00	0.00	3,694.66	489.51	531.14	722.31	0.00	0.00	0.00
3,900.00	0.00	0.00	3,794.66	489.51	531.14	722.31	0.00	0.00	0.00
4,000.00	0.00	0.00	3,894.66	489.51	531.14	722.31	0.00	0.00	0.00
4,100.00	0.00	0.00	3,994.66	489.51	531.14	722.31	0.00	0.00	0.00
4,195.34	0.00	0.00	4,090.00	489.51	531.14	722.31	0.00	0.00	0.00

Scientific Drilling
Rocky Mountain Operations

SDI
Planning Report

Anadarko Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well NBU 1022-12J4BS
Company:	US ROCKIES REGION PLANNING	**TVD Reference:**	GL 5231 & KB 4 @ 5235.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	GL 5231 & KB 4 @ 5235.00ft (ASSUMED)
Site:	NBU 1022-12O PAD	**North Reference:**	True
Well:	NBU 1022-12J4BS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
WASATCH									
4,200.00	0.00	0.00	4,094.66	489.51	531.14	722.31	0.00	0.00	0.00
4,300.00	0.00	0.00	4,194.66	489.51	531.14	722.31	0.00	0.00	0.00
4,400.00	0.00	0.00	4,294.66	489.51	531.14	722.31	0.00	0.00	0.00
4,500.00	0.00	0.00	4,394.66	489.51	531.14	722.31	0.00	0.00	0.00
4,600.00	0.00	0.00	4,494.66	489.51	531.14	722.31	0.00	0.00	0.00
4,700.00	0.00	0.00	4,594.66	489.51	531.14	722.31	0.00	0.00	0.00
4,800.00	0.00	0.00	4,694.66	489.51	531.14	722.31	0.00	0.00	0.00
4,900.00	0.00	0.00	4,794.66	489.51	531.14	722.31	0.00	0.00	0.00
5,000.00	0.00	0.00	4,894.66	489.51	531.14	722.31	0.00	0.00	0.00
5,100.00	0.00	0.00	4,994.66	489.51	531.14	722.31	0.00	0.00	0.00
5,200.00	0.00	0.00	5,094.66	489.51	531.14	722.31	0.00	0.00	0.00
5,300.00	0.00	0.00	5,194.66	489.51	531.14	722.31	0.00	0.00	0.00
5,400.00	0.00	0.00	5,294.66	489.51	531.14	722.31	0.00	0.00	0.00
5,500.00	0.00	0.00	5,394.66	489.51	531.14	722.31	0.00	0.00	0.00
5,600.00	0.00	0.00	5,494.66	489.51	531.14	722.31	0.00	0.00	0.00
5,700.00	0.00	0.00	5,594.66	489.51	531.14	722.31	0.00	0.00	0.00
5,800.00	0.00	0.00	5,694.66	489.51	531.14	722.31	0.00	0.00	0.00
5,900.00	0.00	0.00	5,794.66	489.51	531.14	722.31	0.00	0.00	0.00
6,000.00	0.00	0.00	5,894.66	489.51	531.14	722.31	0.00	0.00	0.00
6,100.00	0.00	0.00	5,994.66	489.51	531.14	722.31	0.00	0.00	0.00
6,200.00	0.00	0.00	6,094.66	489.51	531.14	722.31	0.00	0.00	0.00
6,300.00	0.00	0.00	6,194.66	489.51	531.14	722.31	0.00	0.00	0.00
6,350.34	0.00	0.00	6,245.00	489.51	531.14	722.31	0.00	0.00	0.00
MESAVERDE									
6,400.00	0.00	0.00	6,294.66	489.51	531.14	722.31	0.00	0.00	0.00
6,500.00	0.00	0.00	6,394.66	489.51	531.14	722.31	0.00	0.00	0.00
6,600.00	0.00	0.00	6,494.66	489.51	531.14	722.31	0.00	0.00	0.00
6,700.00	0.00	0.00	6,594.66	489.51	531.14	722.31	0.00	0.00	0.00
6,800.00	0.00	0.00	6,694.66	489.51	531.14	722.31	0.00	0.00	0.00
6,900.00	0.00	0.00	6,794.66	489.51	531.14	722.31	0.00	0.00	0.00
7,000.00	0.00	0.00	6,894.66	489.51	531.14	722.31	0.00	0.00	0.00
7,100.00	0.00	0.00	6,994.66	489.51	531.14	722.31	0.00	0.00	0.00
7,200.00	0.00	0.00	7,094.66	489.51	531.14	722.31	0.00	0.00	0.00
7,300.00	0.00	0.00	7,194.66	489.51	531.14	722.31	0.00	0.00	0.00
7,400.00	0.00	0.00	7,294.66	489.51	531.14	722.31	0.00	0.00	0.00
7,500.00	0.00	0.00	7,394.66	489.51	531.14	722.31	0.00	0.00	0.00
7,600.00	0.00	0.00	7,494.66	489.51	531.14	722.31	0.00	0.00	0.00
7,700.00	0.00	0.00	7,594.66	489.51	531.14	722.31	0.00	0.00	0.00
7,800.00	0.00	0.00	7,694.66	489.51	531.14	722.31	0.00	0.00	0.00
7,900.00	0.00	0.00	7,794.66	489.51	531.14	722.31	0.00	0.00	0.00
8,000.00	0.00	0.00	7,894.66	489.51	531.14	722.31	0.00	0.00	0.00
8,100.00	0.00	0.00	7,994.66	489.51	531.14	722.31	0.00	0.00	0.00
8,200.00	0.00	0.00	8,094.66	489.51	531.14	722.31	0.00	0.00	0.00
8,300.00	0.00	0.00	8,194.66	489.51	531.14	722.31	0.00	0.00	0.00
8,400.00	0.00	0.00	8,294.66	489.51	531.14	722.31	0.00	0.00	0.00
8,500.00	0.00	0.00	8,394.66	489.51	531.14	722.31	0.00	0.00	0.00
8,532.34	0.00	0.00	8,427.00	489.51	531.14	722.31	0.00	0.00	0.00
PBHL_NBU 1022-12J4BS									

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Rocky Mountain Operations

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Anadarko Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well NBU 1022-12J4BS
Company:	US ROCKIES REGION PLANNING	**TVD Reference:**	GL 5231 & KB 4 @ 5235.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	GL 5231 & KB 4 @ 5235.00ft (ASSUMED)
Site:	NBU 1022-12O PAD	**North Reference:**	True
Well:	NBU 1022-12J4BS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL_NBU 1022-12J4E - plan hits target center - Circle (radius 25.00)	0.00	0.00	8,427.00	489.51	531.14	14,515,941.28	2,093,073.38	39° 57' 39.593 N	109° 23' 4.783 W

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
2,251.57	2,174.00	8 5/8"	8.625	11.000

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,074.40	-4,170.00	GREEN RIVER			
4,195.34	-1,145.00	WASATCH			
6,350.34	1,010.00	MESAVERDE			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
300.00	300.00	0.00	0.00	Start Build 2.00
1,300.00	1,279.82	117.09	127.04	Start 1029.45 hold at 1300.00 MD
2,329.45	2,247.18	355.70	385.95	Start Drop -1.75
3,472.31	3,366.97	489.51	531.14	Start 5060.03 hold at 3472.31 MD
8,532.34	8,427.00	489.51	531.14	TD at 8532.34

	NBU 1022-12J4BS		
Surface:	1249 FSL / 2346 FEL	SWSE	Lot
BHL:	1740 FSL / 1816 FEL	NWSE	Lot
	NBU 1022-12J4CS		
Surface:	1240 FSL / 2341 FEL	SWSE	Lot
BHL:	1409 FSL / 1817 FEL	NWSE	Lot
	NBU 1022-12N1BS		
Surface:	1257 FSL / 2352 FEL	SWSE	Lot
BHL:	1242 FSL / 2147 FWL	SESW	Lot
	NBU 1022-12N1CS		
Surface:	1232 FSL / 2335 FEL	SWSE	Lot
BHL:	911 FSL / 2149 FWL	SESW	Lot
	NBU 1022-12N4BS		
Surface:	1224 FSL / 2329 FEL	SWSE	Lot
BHL:	580 FSL / 2150 FWL	SESW	Lot
	NBU 1022-12N4CS		
Surface:	1216 FSL / 2323 FEL	SWSE	Lot
BHL:	251 FSL / 2141 FWL	SESW	Lot

Pad: NBU 1022-12O PAD

Section 12 T10S R22E

Mineral Lease: UT ST UO 01197-A ST

Uintah County, Utah

Operator: Kerr-McGee Oil & Gas Onshore LP

This SUPO contains surface operating procedures for Kerr-McGee Oil & Gas Onshore LP (KMG), a wholly owned subsidiary of Anadarko Petroleum Corporation (APC) pertaining to actions that involve the State of Utah School and Institutional Trust Lands Administration (SITLA) in the development of minerals leased to APC/KMG (including but not limited to, APDs/SULAs/ROEs/ROWs and/or easements.)

See associated Utah Division of Oil, Gas, and Mining (UDOGM) Form 3(s), plats, maps, and other attachments for site-specific information on projects represented herein.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

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A. Existing Roads:

Existing roads consist of county and improved/unimproved lease roads. KMG will maintain existing roads in a condition that is the same as or better than before operations began and in a safe and usable condition. Maintenance of existing roads will continue until final abandonment and reclamation of well pads and/or other facilities. The road maintenance may include, but is not limited to, blading, ditching, culvert installation/cleanout, surfacing, and dust control.

Typically, roads, gathering lines and electrical distribution lines will occupy common disturbance corridors and roadways will be used as working space. All disturbances located in the same corridor will overlap each other to the maximum extent possible; in no case will the maximum disturbance width of the access road and utility corridors exceed 50', unless otherwise approved.

B. Planned Access Roads:

One new access road is proposed (see Topo Map B). The ±570' access road will follow the proposed gas and liquid pipelines from the East corner of the pad to the West edge of the 1022-12P2 well pad. Applicable Uintah County encroachment and/or pipeline crossing permits will be obtained prior to construction/development. No other pipelines will be crossed at this location.

If there are roads that are new or to be reconstructed, they will be located, designed, and maintained to meet the standards of SITLA and other commonly accepted Best Management Practices (BMPs). If a new road/corridor were to cross a water of the United States, KMG will adhere to the requirements of applicable Nationwide or Individual Permits of the Department of Army Corps of Engineers.

During the onsite, turnouts, major cut and fills, culverts, bridges, gates, cattle guards, low water crossings, or modifications needed to existing infrastructure/facilities were determined, as applicable, are typically shown on attached Exhibits and Topo maps.

C. Location of Existing and Proposed Facilities:

The NBU 1022-12O pad is a newly proposed well pad with no existing wells.

Production facilities (see Well Pad Design Summary and Facilities Diagram):

Production facilities will be installed on the disturbed portion of the well pad and may include bermed components (typically excluding dehy's and/or separators) that contain fluids (i.e. production tanks, produced liquids tanks). The berms will be constructed of compacted subsoil or corrugated metal, impervious, designed to hold 110% of the capacity of the largest tank, and be independent of the back cut. All permanent (on-site six months or longer) above ground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earth-tone color chosen at the onsite in coordination with SITLA.

Gathering Facilities:

The following pipeline transmission facilities will apply if the well is productive (see Topo D):

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The total gas gathering (steel line pipe with fusion bond epoxy coating) pipeline distances from the meter to the tie in point is ±1,300' and the individual segments are broken up as follows:

±505' (0.09 miles) –New 6" buried gas pipeline from the meter to the edge of the pad. Please refer to Topo D2 - Pad and Pipeline Detail.
±795' (0.15 miles) –New 6" buried gas pipeline from the edge of pad to the tie-in at the proposed 1022-12P2 Intersection 8" gas pipeline. Please refer to Topo D & D2.

The total liquid gathering pipeline distance from the separator to the tie in point is ±1,300'and the individual segments are broken up as follows:

±505' (0.09 miles) –New 6" buried liquid pipeline from the separator to the edge of the pad. Please refer to Topo D2 - Pad and Pipeline Detail.
±795' (0.15 miles) –New 6" buried liquid pipeline from the edge of pad to the tie-in at the proposed 1022-12P2 Intersection 6" liquid pipeline. Topo D & D2.

The liquid gathering lines will be made of polyethylene or a composite polyethylene/steel or polyethylene/fiberglass that is not subject to internal or external pipe corrosion. The content of the produced fluids to be transferred by the liquid gathering system will be approximately 92% produced water and 8% condensate. Trunk line valve connections for the water gathering system will be below ground but accessible from the surface in order to prevent freezing during winter time.

The proposed pipelines will be buried and will include gas gathering and liquid gathering pipelines in the same trench. Where the pipeline is adjacent to the road or well pad, the road and/or well pad will be utilized for construction activities and staging. KMG requests a permanent 30' right-of-way adjacent to the road for life-of-project for maintenance, repairs, and/or upgrades, no additional right-of-way will be needed beyond the 30'. Where the pipeline is not adjacent to the road or well pad, KMG requests a temporary 45' construction right-of-way 30' permanent right-of-way.

The proposed trench width for the pipeline would range from 18-48 inches and will be excavated to a depth of 48 to 60 inches of normal soil cover or 24 inches of cover in consolidated rock. During construction blasting may occur along the proposed right-of-way where trenching equipment cannot cut into the bedrock. Large debris and rocks removed from the earth during trenching and blasting that could not be returned to the trench would be distributed evenly and naturally in the project area. The proposed pipelines will be pressure tested pneumatically (depending on size) or with fluids (either fresh or produced). If fluids are used, there will be no discharge to the surface.

Pipeline signs will be installed along the right-of-way to indicate the pipeline proximity and ownership, as well as to provide emergency contact phone numbers. Above ground valves, T's, and/or cathodic protection will be installed at various locations for connection, corrosion prevention and/or for safety purposes.

D. Location and Type of Water Supply:

Water for drilling purposes will be obtained from one of the following sources:

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- Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32 T4S R3E, Water User Claim number 43-8496, application number 53617.
- Price Water Pumping Inc. Green River and White River, various sources, Water Right Number 49-1659, application number: a35745.

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

E. Source of Construction Materials:

Construction operations will typically be completed with native materials found on location. If needed, construction materials that must be imported to the site (mineral material aggregate, soils or materials suitable for fill/surfacing) will be obtained from a nearby permitted source and described in subsequent Sundry requests. No construction materials will be removed from State lands without prior approval from SITLA.

F. Methods for Handling Waste Materials:

Should the well be productive, produced water will be contained in a water tank and will be transported by pipeline and/or truck to an approved disposal sites facilities and/or Salt Water Disposal (SWD) injection well. Currently, those facilities are:

RNI in Sec. 5 T9S R22E
Ace Oilfield in Sec. 2 T6S R20E
MC&MC in Sec. 12 T6S R19E
Pipeline Facility in Sec. 36 T9S R20E
Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E
Bonanza Evaporation Pond in Sec. 2 T10S R23E
Ouray #1 SWD in Sec. 1 T9S R21E
NBU 159 SWD in Sec. 35 T9S R21E
CIGE 112D SWD in Sec. 19 T9S R21E
CIGE 114 SWD in Sec. 34 T9S R21E
NBU 921-34K SWD in Sec. 34 T9S R21E
NBU 921-33F SWD in Sec. 33 T9S R21E
NBU 921-34L SWD in Sec. 34 T9S R21E

Drill cuttings and/or fluids will be contained in the reserve/frac pit. Cuttings will be buried in pit(s) upon closure. Unless otherwise approved, no oil or other oil-based drilling additives, chromium/metals-based, or saline muds will be used during drilling. Only fresh water (as specified above), biodegradable polymer soap, bentonite clay, and/or non-toxic additives will be used in the mud system.

Pits will be constructed to minimize the accumulation of surface runoff. Should fluid hydrocarbons be encountered during drilling, completions or well testing, product will either be contained in test tanks on the well site or evacuated

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by vacuum trucks and transported to an approved disposal/sales facility. Should petroleum hydrocarbons unexpectedly be released into a pit, they will be removed as soon as practical but in no case will they remain longer than 72 hours unless an alternate is approved by SITLA. Should timely removal prove infeasible, the pit will be netted with mesh no larger than 1 inch until such time as hydrocarbons can be removed. Hydrocarbon removal will also take place prior to the closure of the pit, unless authorization is provided for disposal via alternative pit closure methods (e.g. solidification.)

The reserve and/or fracture stimulation pit will be lined with a synthetic material 20 mil or thicker, The liner will be installed over smooth fill subgrade that is free of pockets, loose rocks, or other materials (i.e. sand, sifted dirt, bentonite, straw, etc.) that could damage the liner. Any additional pits necessary for subsequent operations, such as temporary flare or workover pits, will be contained within the originally approved well pad and disturbance boundaries. Such temporary pits will be backfilled and reclaimed within 180 days of completion of work at a well location.

For the protection of livestock and wildlife, all open pits and cellars will be fenced/covered to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

Pits containing drilling cuttings, mud, and/or completions fluids will be allowed to dry. Any free fluids remaining after after six (6) months from reaching total depth, date of completion, and/or determination of inactivity will be removed (as weather conditions allow) to an approved site and the pit reclaimed. Additional drying methods may include fly-ash solidification or sprinkler evaporation. Installation and operation of any sprinklers, pumps, and equipment will ensure that water spray or mist does not drift. Reserve pit liners will be cut off or folded as near to the mud surface as possible and as safety considerations allow and buried on location.

No garbage or non-exempt substances as defined by Resource Conservation and Recovery Act (RCRA) subtitle C will be placed in the reserve pit. All refuse generated during construction, drilling, completion, and well testing activities will be contained in an enclosed receptacle, removed from the drill locations promptly, and transported to an approved disposal facility.

Portable, self-contained chemical toilets and/or sewage processing facilities will be provided for human waste disposal. Upon completion of operations, or as required, the toilet holding tanks will be pumped and the contents disposed of in an approved sewage disposal facility. All applicable regulations pertaining to disposal of human and solid waste will be observed.

Any undesirable event, including accidental release of fluids, or release in excess of reportable quantities, will be managed according to the notification requirements of UDOGMs “Reporting Oil and Gas Undesirable Events” rule. Where State wells are participatory to a Federal agreement, according to NTL-3A, the appropriate Federal agencies will be notified.

Materials Management

Hazardous materials above reportable quantities will not be produced by drilling or completing proposed wells or constructing the pipelines/facilities. The term “hazardous materials” as used here means: (1) any substance, pollutant, or

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containment listed as hazardous under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended 42 U.S.C. 9601 et seq., and the regulations issued under CERCLA; and (2) any hazardous waste as defined in RCRA of 1976, as amended. In addition, no extremely hazardous substance, as defined in 40 CFR 355, in threshold planning quantities, would be used, produced, stored, transported, or disposed of while producing any well.

Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act (SARA) in quantities of 10,000 pounds or more may be produced and/or stored at production facilities and may be kept in limited quantities on drilling sites and well locations for short periods of time during drilling or completion activities.

G. Ancillary Facilities:

None are anticipated.

H. Well Site Layout (see Well Pad Design Summary):

The location, orientation and aerial extent of each drill pad; reserve/completion/flare pit; access road ingress/egress points, drilling rig, dikes/ditches, existing wells/infrastructure; proposed cuts and fills; and topsoil and spoil material stockpile locations are depicted on the exhibits for each project, where applicable. Site-specific conditions may require slight deviation in actual equipment and facility layout; however, the area of disturbance, as described in the survey, will not be exceeded.

Coordinates are provided in the National Spatial Reference System, North American Datum, 1927 (NAD27) or latest edition. Distances are depicted on each plat to the nearest two adjacent section lines.

I. Plans for Reclamation of the Surface:

Surface reclamation will be undertaken in two phases: interim and final. Interim reclamation is conducted following well completion and extends through the period of production. This reclamation is for the area of the well pad that is not required for production activities. Final reclamation is conducted following well plugging/conversion and/or facility abandonment processes.

Reclamation activities in both phases may include but is not limited to the re-contouring or re-configuration of topographic surfaces, restoration of drainage systems, segregation of spoils materials, minimizing surface disturbance, re-evaluating backfill requirements, pit closure, topsoil redistribution, soil treatments, seeding and weed control.

Interim Reclamation

Interim reclamation includes pit closure, re-contouring (where possible), soil bed preparation, topsoil placement, seeding, and/or weed control.

Interim re-contouring involves bringing all construction material from cuts and fills back onto the well pad and site and reestablishing the natural contours where desirable and practical. Fill and stockpiled spoils no longer necessary to the operation will be spread on the cut slopes and covered with stockpiled topsoil. All stockpiled top soils will be used for

interim reclamation where practical to maintain soil viability. Where possible, the land surface will be left “rough” after re-contouring to ensure that the maximum surface area will be available to support the reestablishment of vegetative cover.

A reserve pit, upon being allowed to dry, will be backfilled and compacted with cover materials that are void of any topsoil, vegetation, large stones, rocks or foreign objects. Soils that are moisture laden, saturated, or partially/completely frozen will not be used for backfill or cover. The pit area will be mounded to allow for settling and to promote positive surface drainage away from the pit.

Final Reclamation

Final reclamation will be performed for newly drilled unproductive wells and/or at the end of the life of a productive well. As soon as practical after the conclusion of drilling and testing operations, unproductive drill holes will be plugged and abandoned (P&A). Site and road reclamation will commence following plugging. In no case will reclamation at non-producing locations be initiated later than six (6) months from the date a well is plugged. A joint inspection of the disturbed area to be reclaimed may be requested by KMG. The primary purpose of this inspection will be to review the existing conditions, or agree upon a revised final reclamation and abandonment plan. A Notice of Intent to Abandon will be filed for final recommendations regarding surface reclamation.

After plugging, all wellhead equipment that is no longer needed will be removed, and the well site will be reclaimed. Final contouring will blend with and follow as closely as practical the natural terrain and contours of the original site and surrounding areas. After re-contouring, final grading will be conducted over the entire surface of the well site and access road. Where practical, the area will be ripped to a depth of 18 to 24 inches on 18 to 24-inch centers and surface materials will be pitted with small depressions to form longitudinal depressions 12 to 18 inches deep perpendicular to the natural flow of water.

All unnecessary surface equipment and structures (e.g. cattle guards) and water control structures (e.g. culverts, drainage pipes) not needed to facilitate successful reclamation will be removed during final reclamation. Roads that will be reclaimed will be ripped to a depth of 18 inches where practical, re-contoured to approximate the original contour of the ground and seeded.

Upon successfully completing reclamation of a P&A location, a Final Abandonment Notice will be submitted to UDOGM.

Seeding and Measures Common to Interim and Final Reclamation

Reclaimed areas may be fenced to exclude grazing and encourage re-vegetation.

On slopes where severe erosion can become a problem and the use of machinery is not practical, seed will be hand broadcast and raked with twice the specified amount of seed. The slope will be stabilized using materials specifically designed to prevent erosion on steep slopes and hold seed in place so vegetation can become permanently established. These materials will include, but are not limited to, erosion control blankets and bonded fiber matrix at a rate to achieve a minimum of 80 percent soil coverage.

Seeding will occur year-round as conditions allow. Seed mixes appropriate to the native plant community as determined

and specified for each project location based on the site specific soils will be used for re-vegetation. The site specific seed mix will be provided by SITLA.

J. Surface/Mineral Ownership:

SITLA
675 East 500 South, Suite 500
Salt Lake City, UT 84102

L. Other Information:

None

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M. Lessee's or Operators' Representative & Certification:

Gina T. Becker
Regulatory Analyst II
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6086

Tommy Thompson
General Manager, Drilling
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage for State lease activities is provided by State Surety Bond 22013542, and for applicable Federal lease activities and pursuant to 43 CFR 3104, by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Gina T.Becker

September 8, 2011
Date

Joseph D. Johnson
1099 18TH STREET STE. 1800 • DENVER, CO 80202
720-929-6708 • FAX 720-929-7708
E-MAIL: JOE.JOHNSON@ANADARKO.COM

September 7, 2011

Ms. Diana Mason
Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, UT 84114-6100

Re: Directional Drilling R649-3-11
NBU 1022-12J4BS
10S-22E-Sec. 12
SWSE/NWSE
Surface: 1249' FSL, 2346' FEL
Bottom Hole: 1740' FSL, 1816' FEL
Uintah County, Utah

Dear Ms. Mason:

Pursuant to the filing of Kerr-McGee Oil & Gas Onshore LP's (Kerr-McGee) Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to the Exception to Location and Siting of Wells.

- Kerr-McGee's NBU 1022-12J4BS is located within the Natural Buttes Unit area.
- Kerr-McGee is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to utilize the existing road and pipelines in the area.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

Therefore, based on the above stated information Kerr-McGee Oil & Gas Onshore LP requests the permit be granted pursuant to R649-3-11.

Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

Joseph D. Johnson
Landman

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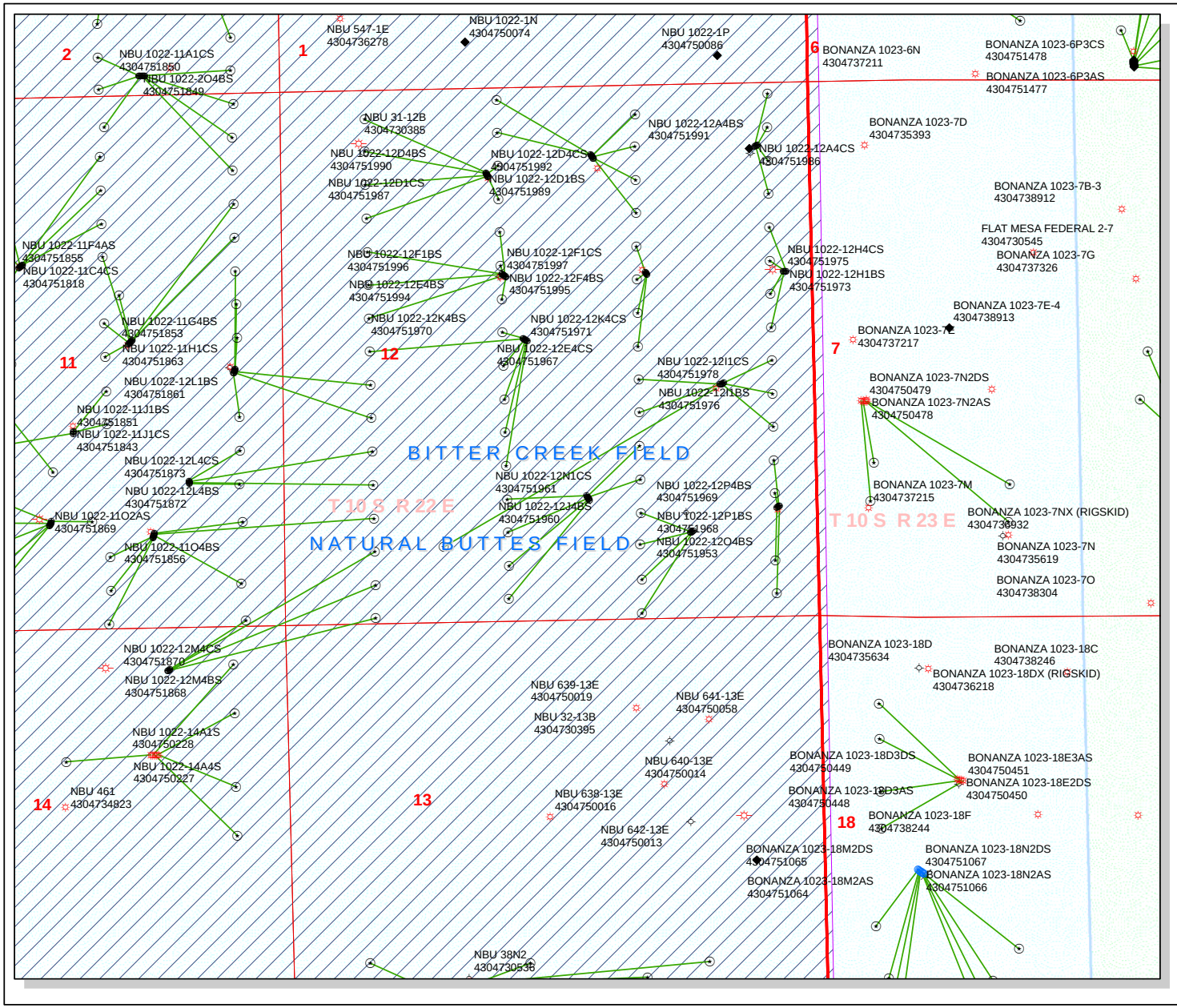
API Well Number: 43047519600000



API Number: 4304751960

Well Name: NBU 1022-12J4BS

Township T1.0 . Range R2.2 . Section 12

Meridian: SLBM

Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Map Prepared:
Map Produced by Diana Mason

Units
STATUS
- ACTIVE
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Fields
STATUS
- Unknown
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- STORAGE
- TERMINATED
- Sections
- Township

Wells Query
Status
- APD - Aproved Permit
- DRL - Spuded (Drilling Commenced)
- GIW - Gas Injection
- GS - Gas Storage
- LA - Location Abandoned
- LOC - New Location
- OPS - Operation Suspended
- PA - Plugged Abandoned
- PGW - Producing Gas Well
- POW - Producing Oil Well
- RET - Returned APD
- SGW - Shut-in Gas Well
- SOW - Shut-in Oil Well
- TA - Temp. Abandoned
- TW - Test Well
- WDW - Water Disposal
- WIW - Water Injection Well
- WSW - Water Supply Well

1,250 625 0 1,250 Feet

1:11,836

RECEIVED: September 15, 2011

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:
3160
(UT-922)

September 19, 2011

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2011 Plan of Development Natural Buttes Unit
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2011 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
NBU 1022-12H PAD		
43-047-51941	NBU 1022-12H4BS	Sec 12 T10S R22E 1846 FNL 0361 FEL BHL Sec 12 T10S R22E 2071 FNL 0491 FEL
43-047-51942	NBU 1022-12H1CS	Sec 12 T10S R22E 1843 FNL 0341 FEL BHL Sec 12 T10S R22E 1740 FNL 0491 FEL
43-047-51973	NBU 1022-12H1BS	Sec 12 T10S R22E 1842 FNL 0331 FEL BHL Sec 12 T10S R22E 1408 FNL 0491 FEL
43-047-51975	NBU 1022-12H4CS	Sec 12 T10S R22E 1845 FNL 0351 FEL BHL Sec 12 T10S R22E 2402 FNL 0492 FEL
NBU 1022-12O PAD		
43-047-51943	NBU 1022-12N4BS	Sec 12 T10S R22E 1224 FSL 2329 FEL BHL Sec 12 T10S R22E 0580 FSL 2150 FWL
43-047-51945	NBU 1022-12N4CS	Sec 12 T10S R22E 1216 FSL 2323 FEL BHL Sec 12 T10S R22E 0251 FSL 2141 FWL
43-047-51956	NBU 1022-12J4CS	Sec 12 T10S R22E 1240 FSL 2341 FEL BHL Sec 12 T10S R22E 1409 FSL 1817 FEL
43-047-51959	NBU 1022-12N1BS	Sec 12 T10S R22E 1257 FSL 2352 FEL BHL Sec 12 T10S R22E 1242 FSL 2147 FWL
43-047-51960	NBU 1022-12J4BS	Sec 12 T10S R22E 1249 FSL 2346 FEL BHL Sec 12 T10S R22E 1740 FSL 1816 FEL

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API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
43-047-51961	NBU 1022-12N1CS	Sec 12 T10S R22E 1232 FSL 2335 FEL
		BHL Sec 12 T10S R22E 0911 FSL 2149 FWL
NBU 1022-12B PAD		
43-047-51944	NBU 1022-12B1BS	Sec 12 T10S R22E 0668 FNL 2232 FEL
		BHL Sec 12 T10S R22E 0259 FNL 1797 FEL
43-047-51979	NBU 1022-12C1BS	Sec 12 T10S R22E 0651 FNL 2244 FEL
		BHL Sec 12 T10S R22E 0089 FNL 2138 FWL
43-047-51980	NBU 1022-12B1CS	Sec 12 T10S R22E 0676 FNL 2227 FEL
		BHL Sec 12 T10S R22E 0579 FNL 1806 FEL
43-047-51981	NBU 1022-12C1CS	Sec 12 T10S R22E 0660 FNL 2238 FEL
		BHL Sec 12 T10S R22E 0414 FNL 2133 FWL
43-047-51982	NBU 1022-12B4BS	Sec 12 T10S R22E 0684 FNL 2221 FEL
		BHL Sec 12 T10S R22E 0910 FNL 1807 FEL
43-047-51983	NBU 1022-12B4CS	Sec 12 T10S R22E 0692 FNL 2215 FEL
		BHL Sec 12 T10S R22E 1241 FNL 1808 FEL
NBU 1022-12P PAD		
43-047-51947	NBU 1022-12P4CS	Sec 12 T10S R22E 1115 FSL 0442 FEL
		BHL Sec 12 T10S R22E 0246 FSL 0491 FEL
43-047-51962	NBU 1022-12I4CS	Sec 12 T10S R22E 1112 FSL 0451 FEL
		BHL Sec 12 T10S R22E 1574 FSL 0493 FEL
43-047-51968	NBU 1022-12P1BS	Sec 12 T10S R22E 1109 FSL 0461 FEL
		BHL Sec 12 T10S R22E 1240 FSL 0489 FEL
43-047-51969	NBU 1022-12P4BS	Sec 12 T10S R22E 1105 FSL 0470 FEL
		BHL Sec 12 T10S R22E 0580 FSL 0494 FEL
NBU 1022-12P2 PAD		
43-047-51949	NBU 1022-12O1BS	Sec 12 T10S R22E 0877 FSL 1322 FEL
		BHL Sec 12 T10S R22E 1077 FSL 1818 FEL
43-047-51950	NBU 1022-12O1CS	Sec 12 T10S R22E 0873 FSL 1331 FEL
		BHL Sec 12 T10S R22E 0761 FSL 1834 FEL
43-047-51953	NBU 1022-12O4BS	Sec 12 T10S R22E 0881 FSL 1313 FEL
		BHL Sec 12 T10S R22E 0415 FSL 1820 FEL
43-047-51954	NBU 1022-12O4CS	Sec 12 T10S R22E 0885 FSL 1304 FEL
		BHL Sec 12 T10S R22E 0082 FSL 1828 FEL
NBU 1022-12A PAD		
43-047-51951	NBU 1022-12A1BS	Sec 12 T10S R22E 0598 FNL 0621 FEL
		BHL Sec 12 T10S R22E 0081 FNL 0481 FEL
43-047-51952	NBU 1022-12A1CS	Sec 12 T10S R22E 0591 FNL 0592 FEL
		BHL Sec 12 T10S R22E 0414 FNL 0490 FEL

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API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
43-047-51986	NBU 1022-12A4CS	Sec 12 T10S R22E 0596 FNL 0611 FEL
		BHL Sec 12 T10S R22E 1077 FNL 0491 FEL
43-047-51991	NBU 1022-12A4BS	Sec 12 T10S R22E 0593 FNL 0601 FEL
		BHL Sec 12 T10S R22E 0746 FNL 0490 FEL
NBU 1022-12I PAD		
43-047-51955	NBU 1022-12J1CS	Sec 12 T10S R22E 2333 FSL 1011 FEL
		BHL Sec 12 T10S R22E 2071 FSL 1815 FEL
43-047-51957	NBU 1022-12J1BS	Sec 12 T10S R22E 2337 FSL 1002 FEL
		BHL Sec 12 T10S R22E 2402 FSL 1814 FEL
43-047-51958	NBU 1022-12I4BS	Sec 12 T10S R22E 2341 FSL 0993 FEL
		BHL Sec 12 T10S R22E 1905 FSL 0493 FEL
43-047-51976	NBU 1022-12I1BS	Sec 12 T10S R22E 2350 FSL 0974 FEL
		BHL Sec 12 T10S R22E 2568 FSL 0492 FEL
43-047-51978	NBU 1022-12I1CS	Sec 12 T10S R22E 2345 FSL 0984 FEL
		BHL Sec 12 T10S R22E 2237 FSL 0492 FEL
NBU 1022-12G PAD		
43-047-51963	NBU 1022-12G1CS	Sec 12 T10S R22E 1833 FNL 1721 FEL
		BHL Sec 12 T10S R22E 1904 FNL 1810 FEL
43-047-51972	NBU 1022-12G4BS	Sec 12 T10S R22E 1841 FNL 1715 FEL
		BHL Sec 12 T10S R22E 2235 FNL 1812 FEL
43-047-51974	NBU 1022-12G1BS	Sec 12 T10S R22E 1826 FNL 1727 FEL
		BHL Sec 12 T10S R22E 1572 FNL 1809 FEL
43-047-51977	NBU 1022-12G4CS	Sec 12 T10S R22E 1849 FNL 1709 FEL
		BHL Sec 12 T10S R22E 2566 FNL 1813 FEL
NBU 1022-12F4 PAD		
43-047-51964	NBU 1022-12F4CS	Sec 12 T10S R22E 2462 FNL 2342 FWL
		BHL Sec 12 T10S R22E 2401 FNL 2141 FWL
43-047-51965	NBU 1022-12K1BS	Sec 12 T10S R22E 2473 FNL 2359 FWL
		BHL Sec 12 T10S R22E 2567 FSL 2142 FWL
43-047-51966	NBU 1022-12K1CS	Sec 12 T10S R22E 2479 FNL 2367 FWL
		BHL Sec 12 T10S R22E 2236 FSL 2144 FWL
43-047-51967	NBU 1022-12E4CS	Sec 12 T10S R22E 2467 FNL 2350 FWL
		BHL Sec 12 T10S R22E 2565 FNL 0822 FWL
43-047-51970	NBU 1022-12K4BS	Sec 12 T10S R22E 2484 FNL 2375 FWL
		BHL Sec 12 T10S R22E 1904 FSL 2145 FWL
43-047-51971	NBU 1022-12K4CS	Sec 12 T10S R22E 2490 FNL 2384 FWL
		BHL Sec 12 T10S R22E 1573 FSL 2146 FWL

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API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
NBU 1022-12CPAD		
43-047-51984	NBU 1022-12C4BS	Sec 12 T10S R22E 0827 FNL 2020 FWL
		BHL Sec 12 T10S R22E 0745 FNL 2134 FWL
43-047-51985	NBU 1022-12C4CS	Sec 12 T10S R22E 0855 FNL 2031 FWL
		BHL Sec 12 T10S R22E 1076 FNL 2135 FWL
43-047-51987	NBU 1022-12D1CS	Sec 12 T10S R22E 0818 FNL 2016 FWL
		BHL Sec 12 T10S R22E 0579 FNL 0819 FWL
43-047-51989	NBU 1022-12D1BS	Sec 12 T10S R22E 0809 FNL 2013 FWL
		BHL Sec 12 T10S R22E 0260 FNL 0823 FWL
43-047-51990	NBU 1022-12D4BS	Sec 12 T10S R22E 0837 FNL 2024 FWL
		BHL Sec 12 T10S R22E 0910 FNL 0819 FWL
43-047-51992	NBU 1022-12D4CS	Sec 12 T10S R22E 0846 FNL 2027 FWL
		BHL Sec 12 T10S R22E 1241 FNL 0820 FWL
NBU 1022-12FPAD		
43-047-51988	NBU 1022-12E1BS	Sec 12 T10S R22E 1818 FNL 2146 FWL
		BHL Sec 12 T10S R22E 1572 FNL 0820 FWL
43-047-51993	NBU 1022-12E1CS	Sec 12 T10S R22E 1824 FNL 2154 FWL
		BHL Sec 12 T10S R22E 1903 FNL 0821 FWL
43-047-51994	NBU 1022-12E4BS	Sec 12 T10S R22E 1835 FNL 2170 FWL
		BHL Sec 12 T10S R22E 2234 FNL 0821 FWL
43-047-51995	NBU 1022-12F4BS	Sec 12 T10S R22E 1847 FNL 2187 FWL
		BHL Sec 12 T10S R22E 2070 FNL 2140 FWL
43-047-51996	NBU 1022-12F1BS	Sec 12 T10S R22E 1841 FNL 2179 FWL
		BHL Sec 12 T10S R22E 1407 FNL 2137 FWL
43-047-51997	NBU 1022-12F1CS	Sec 12 T10S R22E 1830 FNL 2162 FWL
		BHL Sec 12 T10S R22E 1739 FNL 2138 FWL

Michael L. Coulthard

Digitally signed by Michael L. Coulthard
DN: cn=Michael L. Coulthard, o=Bureau of Land Management, ou=Branch of Minerals, email=Michael_Coulthard@blm.gov, c=US
Date: 2011.09.19 14:47:24 -06'00'

bcc: File - Natural Buttes Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:9-19-11

RECEIVED: September 20, 2011

From: Diana Mason
To:
Subject: Fwd: Kerr McGee APD approvals

The following APDs have been approved by SITLA including arch and paleo clearance.

NBU 1022-12A1BS (4304751951)
NBU 1022-12A1CS (4304751952)
NBU 1022-12A4CS (4304751986
)NBU 1022-12A4BS (4304751991)
NBU 1022-12J1CS (4304751955)
NBU 1022-12J1BS (4304751957)
NBU 1022-12I4BS (4304751958)
NBU 1022-12I1BS (4304751976)
NBU 1022-12I1CS (4304751978)
NBU 1022-12B1BS (4304751944
)NBU 1022-12C1BS (4304751979)
NBU 1022-12B1CS (4304751980)
)NBU 1022-12C1CS (4304751981)
NBU 1022-12B4BS (4304751982)
NBU 1022-12B4CS (4304751983
)NBU 1022-12H4BS (4304751941)
NBU 1022-12H1CS (4304751942)
NBU 1022-12H1BS (4304751973)
NBU 1022-12H4CS (4304751975)
NBU 1022-12F4CS (4304751964)
NBU 1022-12K1BS (4304751965)
NBU 1022-12K1CS (4304751966)
NBU 1022-12E4CS (4304751967)
NBU 1022-12K4BS (4304751970)
NBU 1022-12K4CS (4304751971)
NBU 1022-12O1BS (4304751949)
NBU 1022-12O1CS (4304751950)
NBU 1022-12O4BS (4304751953)
NBU 1022-12O4CS (4304751954)
NBU 1022-12P4CS (4304751947)
NBU 1022-12I4CS (4304751962)
NBU 1022-12P1BS (4304751968)
NBU 1022-12P4BS (4304751969)
NBU 1022-12G1CS (4304751963)
NBU 1022-12G4BS (4304751972)
NBU 1022-12G1BS (4304751974)
NBU 1022-12G4CS (4304751977)
NBU 1022-12N4BS (4304751943)
NBU 1022-12N4CS (4304751945)
NBU 1022-12J4CS (4304751956)
NBU 1022-12N1BS (4304751959)
NBU 1022-12J4BS (4304751960)
NBU 1022-12N1CS (4304751961)

-Jim Davis

RECEIVED: November 08, 2011

Jim Davis
Utah Trust Lands Administration
jimdavis1@utah.gov
Phone: (801) 538-5156

RECEIVED: **November 08, 2011**

API Well Number: 43047519600000

BOPE REVIEW KERR-MCGEE OIL & GAS ONSHORE, L.P. NBU 1022-12J4BS 43047519600000

Well Name	KERR-MCGEE OIL & GAS ONSHORE, L.P. NBU 1022-12J4BS			
String	Surf	Prod		
Casing Size(")	8.625	4.500		
Setting Depth (TVD)	2097	8427		
Previous Shoe Setting Depth (TVD)	40	2097		
Max Mud Weight (ppg)	8.3	12.5		
BOPE Proposed (psi)	500	5000		
Casing Internal Yield (psi)	3390	7780		
Operators Max Anticipated Pressure (psi)	5393	12.3		

Calculations	Surf String	8.625	"	
Max BHP (psi)	.052*Setting Depth*MW=	905		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	653	NO	air drill
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	444	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	452	NO	Reasonable for area
Required Casing/BOPE Test Pressure=		2097	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		40	psi	*Assumes 1psi/ft frac gradient

Calculations	Prod String	4.500	"	
Max BHP (psi)	.052*Setting Depth*MW=	5478		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	4467	YES	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	3624	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	4085	NO	Reasonable
Required Casing/BOPE Test Pressure=		5000	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		2097	psi	*Assumes 1psi/ft frac gradient

Calculations	String		"	
Max BHP (psi)	.052*Setting Depth*MW=			
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO	
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO	
Required Casing/BOPE Test Pressure=			psi	
*Max Pressure Allowed @ Previous Casing Shoe=			psi	*Assumes 1psi/ft frac gradient

Calculations	String		"	
Max BHP (psi)	.052*Setting Depth*MW=			
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO	
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO	
Required Casing/BOPE Test Pressure=			psi	

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***Max Pressure Allowed @ Previous Casing Shoe=**		psi *Assumes 1psi/ft frac gradient

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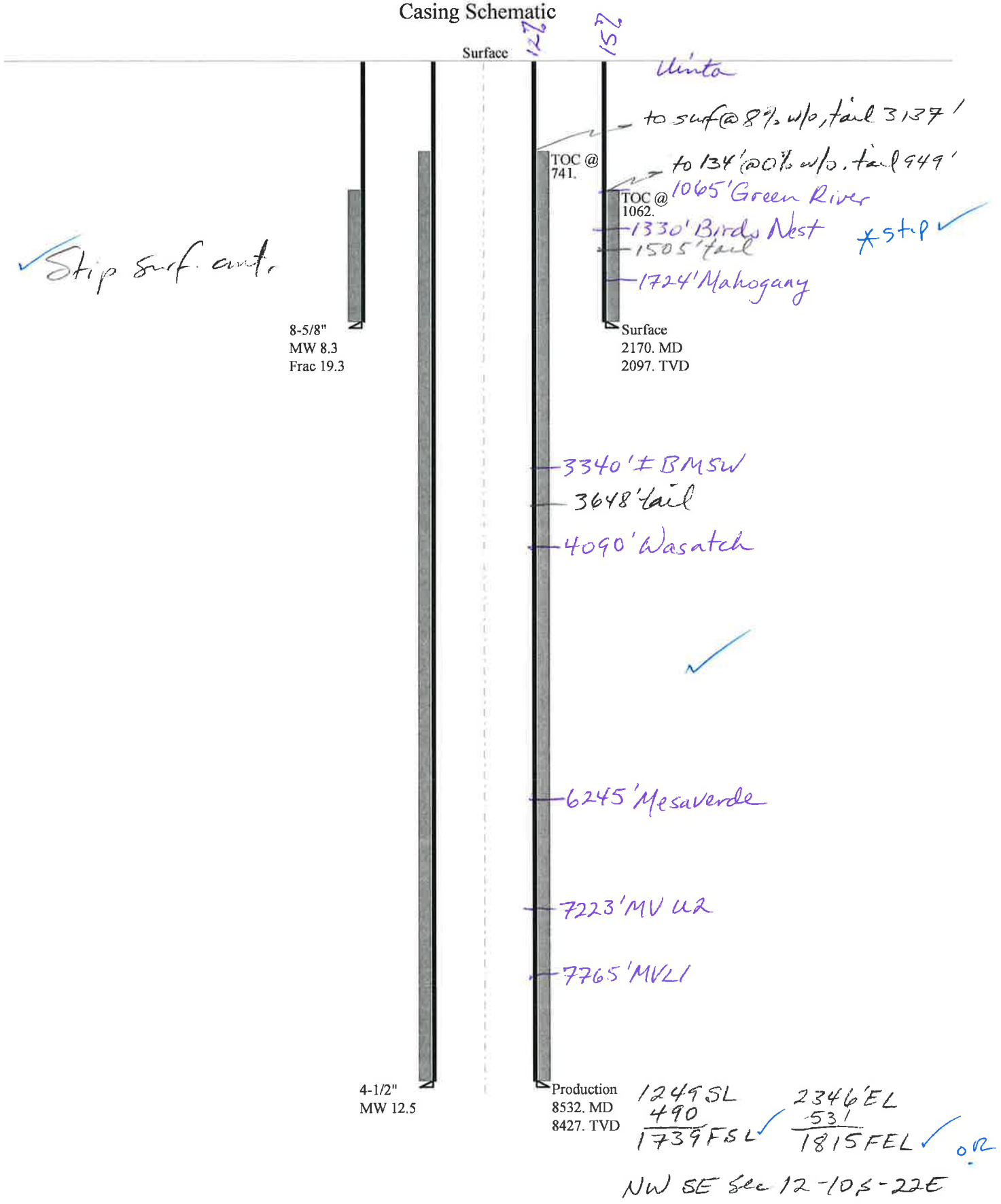
43047519600000 NBU 1022-12J4BS

Casing Schematic



Well name:	**43047519600000 NBU 1022-12J4BS**
Operator:	**KERR-MCGEE OIL & GAS ONSHORE, L.P.**
String type:	Surface
Project ID:	43-047-51960
Location:	UINTAH COUNTY

Design parameters:

Collapse
Mud weight: 8.330 ppg
Design is based on evacuated pipe.

Burst
Max anticipated surface pressure: 1,910 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 2,161 psi

No backup mud specified.

Minimum design factors:

Collapse:
Design factor 1.125

Burst:
Design factor 1.00

Tension:
8 Round STC: 1.80 (J)
8 Round LTC: 1.70 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on air weight.
Neutral point: 1,896 ft

Environment:
H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 103 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 1,062 ft

Directional Info - Build & Drop
Kick-off point 300 ft
Departure at shoe: 470 ft
Maximum dogleg: 2 °/100ft
Inclination at shoe: 20 °

Re subsequent strings:
Next setting depth: 8,532 ft
Next mud weight: 12.500 ppg
Next setting BHP: 5,540 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 2,170 ft
Injection pressure: 2,170 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost ($)
1	2170	8.625	28.00	I-55	LT&C	2097	2170	7.892	85932

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	908	1880	2.071	2161	3390	1.57	58.7	348	5.93 J

Prepared by: Helen Sadik-Macdonald, Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940
Date: November 21,2011
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 2097 ft, a mud weight of 8.33 ppg The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.
Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	**43047519600000 NBU 1022-12J4BS**
Operator:	**KERR-MCGEE OIL & GAS ONSHORE, L.P.**
String type:	Production
Project ID:	43-047-51960
Location:	UINTAH COUNTY

Design parameters:

Collapse
Mud weight: 12.500 ppg
Design is based on evacuated pipe.

Burst
Max anticipated surface pressure: 3,618 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 5,472 psi

No backup mud specified.

Minimum design factors:

Collapse:
Design factor 1.125

Burst:
Design factor 1.00

Tension:
8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.60 (B)

Tension is based on air weight.
Neutral point: 6,957 ft

Environment:
H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 192 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 741 ft

Directional Info - Build & Drop
Kick-off point 300 ft
Departure at shoe: 722 ft
Maximum dogleg: 2 °/100ft
Inclination at shoe: 0 °

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost ($)
1	8532	4.5	11.60	I-80	LT&C	8427	8532	3.875	112622

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	5472	6360	1.162	5472	7780	1.42	97.7	212	2.17 J

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940
Date: November 21,2011
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 8427 ft, a mud weight of 12.5 ppg The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.
Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

ON-SITE PREDRILL EVALUATION
Utah Division of Oil, Gas and Mining

Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.				
Well Name	NBU 1022-12J4BS				
API Number	43047519600000	**APD No**	4612	**Field/Unit**	NATURAL BUTTES
Location: 1/4,1/4	SWSE **Sec** 12 **Tw** 10.0S **Rng** 22.0E 1249 FSL 2346 FEL				
GPS Coord (UTM)	637815 4424301	**Surface Owner**			

Participants

Andy Lytle, Sheila Wopsock, Charles Chase, Grizz Oleen, Jaime Scharnowski, Doyle Holmes, (Kerr McGee). John Slaugh, Mitch Batty, (Timberline). Jim Davis (SITLA). Ben Williams (DWR). David Hackford, (DOGM).

Regional/Local Setting & Topography

The general area is in the southeast portion of the Natural Buttes Unit. Within this area is the White River and rugged drainages that drain into it. Topography is varied and frequently dissected by short draws or washes, which become overly steep as they approach the White River breaks or rim. Distance to the White River is approx. 0.3 miles to the west. The side drainages are dry except for ephemeral flows. No seeps or springs exist in the area. An occasional pond has been constructed to supply water for livestock and antelope. Vernal, Utah is approximately 48.5 miles to the northwest. Access from Vernal is by following Utah State, Uintah County and oilfield development roads. Five wells, in addition to this one (for a total of six) will be directionally drilled from this pad. This proposed location will be a new pad. A 570 foot new access road will be constructed. The proposed location will run in a northwest-southeast direction along the top of a sharp, steep ridge. This ridge breaks off sharply into rugged secondary canyons especially on the west and south sides. The reserve pit will be on the southwest side of the location and the excess cut stockpile will be on the west and south sides of the location. The northeast side of the location will be compacted fill. The pad should be stable and should be a suitable location for six wells, and is on the best site available in the immediate area.

Surface Use Plan

Current Surface Use
Grazing
Wildlfe Habitat

New Road Miles	Well Pad	Src Const Material	Surface Formation
0.1	**Width** 307 **Length** 425	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate? Y

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Prickly pear, wild onion, shadscale, mat saltbrush, Indian ricegrass, halogeton, pepper grass, annuals and curly Vegetation is a salt desert shrub type. Principal species present are cheatgrass, black sagebrush, stipa, mesquite grass.

Sheep, antelope, coyote, raptors, small mammals and birds.

Soil Type and Characteristics

Rocky sandy clay loam.

Erosion Issues N

Sedimentation Issues N

Site Stability Issues Y

North corner of location will be 7.4 foot of fill. This must be compacted during location construction.

Drainage Diverson Required? N

Berm Required? N

Erosion Sedimentation Control Required? N

Paleo Survey Run? Y **Paleo Potental Observed?** N **Cultural Survey Run?** Y **Cultural Resources?** N

Reserve Pit

Site-Specific Factors		Site Ranking	
Distance to Groundwater (feet)	100 to 200	5	
Distance to Surface Water (feet)	>1000	0	
Dist. Nearest Municipal Well (ft)	>5280	0	
Distance to Other Wells (feet)		20	
Native Soil Type	High permeability	20	
Fluid Type	Fresh Water	5	
Drill Cuttings	Normal Rock	0	
Annual Precipitation (inches)		0	
Affected Populations			
Presence Nearby Utility Conduits	Not Present	0	
	Final Score	50	1 Sensitivity Level

Characteristics / Requirements

The reserve pit is planned in an area of cut on the southwest side of the location. Dimensions are 100’ x 260’ x 12’ deep with two feet of freeboard. Kerr McGee agreed to line this pit with a 16 mil synthetic liner and a layer of felt sub-liner.

Closed Loop Mud Required? N **Liner Required?** Y **Liner Thickness** 16 **Pit Underlayment Required?** Y

Other Observations / Comments

David Hackford	10/12/2011
Evaluator	**Date / Time**

Application for Permit to Drill
Statement of Basis

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
4612	43047519600000	SITLA	GW	S	No
Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.		**Surface Owner-APD**		
Well Name	NBU 1022-12J4BS		**Unit**	NATURAL BUTTES	
Field	NATURAL BUTTES		**Type of Work**	DRILL	
Location	SWSE 12 10S 22E S 1249 FSL 2346 FEL GPS Coord (UTM) 637745E 4424519N				

Geologic Statement of Basis

Kerr McGee proposes to set 2,170’ of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 3,340'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of Section 12. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. Production casing cement should be brought up above the base of the moderately saline ground water to isolate it from fresher waters uphole.

Brad Hill	11/2/2011
APD Evaluator	**Date / Time**

Surface Statement of Basis

The general area is in the southeast portion of the Natural Buttes Unit. Within this area is the White River and rugged drainages that drain into it. Topography is varied and frequently dissected by short draws or washes, which become overly steep as they approach the White River breaks or rim. Distance to the White River is 0.3 miles to the east. The side drainages are dry except for ephemeral flows. No seeps or springs exist in the area. An occasional pond has been constructed to supply water for livestock and antelope. Vernal, Utah is approximately 48.5 miles to the northwest. Access from Vernal is by following Utah State, Uintah County and oilfield development roads. A 570’ new access road will be constructed.

Six wells will be directionally drilled from this location. They are the NBU 1022-12J4BS, NBU 1022-12J4CS, NBU 1022-12N1BS, NBU 1022-12N1CS, NBU 1022-12N4BS and the NBU 1022-12N4CS. The proposed location is on a sharp, steep ridge that runs in an east-west direction. This ridge breaks off sharply into rugged secondary canyons especially to the west and south sides. The pad as constructed should be stable and sufficient for six wells, and is the best site in the immediate area.

Excess material will be stockpiled on the west and south sides of the location. The north corner of the location will be fill and will be compacted during location construction.

Both the surface and minerals are owned by SITLA. Jim Davis of SITLA and Ben Williams with DWR were invited by email to the pre-site evaluation. Both were present. Kerr McGee was told to consult with SITLA for reclamation standards including seeding mixes to be used.

David Hackford	10/12/2011
Onsite Evaluator	**Date / Time**

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Pits	The reserve pit should be located on the southwest side of the location.

RECEIVED: December 12, 2011

Application for Permit to Drill
Statement of Basis

Surface	The well site shall be bermed to prevent fluids from leaving the pad.

RECEIVED: December 12, 2011

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 9/13/2011 **API NO. ASSIGNED:** 43047519600000
WELL NAME: NBU 1022-12J4BS
OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995) **PHONE NUMBER:** 720 929-6086
CONTACT: Gina Becker

PROPOSED LOCATION: SWSE 12 100S 220E **Permit Tech Review:** ☑
SURFACE: 1249 FSL 2346 FEL **Engineering Review:** ☑
BOTTOM: 1740 FSL 1816 FEL **Geology Review:** ☑
COUNTY: UINTAH
LATITUDE: 39.95960 **LONGITUDE:** -109.38729
UTM SURF EASTINGS: 637745.00 **NORTHINGS:** 4424519.00
FIELD NAME: NATURAL BUTTES
LEASE TYPE: 3 - State
LEASE NUMBER: UT ST UO 01997-A ST **PROPOSED PRODUCING FORMATION(S):** WASATCH-MESA VERDE
SURFACE OWNER: 3 - State **COALBED METHANE:** NO

RECEIVED AND/OR REVIEWED:

- ☑ **PLAT**
- ☑ **Bond:** STATE/FEE - 22013542
- ☐ **Potash**
- ☑ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ☑ **Water Permit:** 43-8496
- ☐ **RDCC Review:**
- ☐ **Fee Surface Agreement**
- ☑ **Intent to Commingle**

Commingling Approved

LOCATION AND SITING:

- ☐ **R649-2-3.**

Unit: NATURAL BUTTES

- ☐ **R649-3-2. General**
- ☐ **R649-3-3. Exception**
- ☑ **Drilling Unit**

Board Cause No: Cause 173-14
Effective Date: 12/2/1999
Siting: Suspends General Siting

- ☑ **R649-3-11. Directional Drill**

Comments: Presite Completed

Stipulations:
3 - Commingling - ddoucet
5 - Statement of Basis - bhill
15 - Directional - dmason
17 - Oil Shale 190-5(b) - dmason
25 - Surface Casing - hmacdonald

RECEIVED: December 12, 2011

GARY R. HERBERT
Governor
GREGORY S. BELL
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES
MICHAEL R. STYLER
Executive Director
Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

Permit To Drill

****

Well Name: NBU 1022-12J4BS
API Well Number: 43047519600000
Lease Number: UT ST UO 01997-A ST
Surface Owner: STATE
Approval Date: 12/12/2011

Issued to:
KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:
Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 173-14. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:
This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Commingle:
In accordance with Board Cause No. 173-14, commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

General:
Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:
In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Surface casing shall be cemented to the surface.

Additional Approvals:
The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan – contact Dustin Doucet
- Significant plug back of the well – contact Dustin Doucet
- Plug and abandonment of the well – contact Dustin Doucet

Notification Requirements:
The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels
  OR
  submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at http://oilgas.ogm.utah.gov
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program – contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well – contact Dan Jarvis

Contact Information:
The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office
  801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office
  801-231-8956 - after office hours

Reporting Requirements:
All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

Approved By:

For John Rogers
Associate Director, Oil & Gas

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER: UT ST UO 01197-A ST

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME: UTU63047A

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER

8. WELL NAME and NUMBER: Multiple Well Locations

2. NAME OF OPERATOR: Kerr-McGee Oil & Gas Onshore, L.P.

9. API NUMBER:

3. ADDRESS OF OPERATOR: P.O. Box 173779 Denver CO 80217

PHONE NUMBER: (720) 929-6086

10. FIELD AND POOL, OR WILDCAT: Natural Buttes

4. LOCATION OF WELL

FOOTAGES AT SURFACE: Various Locations in T10S-R22E, Section 12

COUNTY: Uintah

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: 12 10S 22E 6

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: 4/23/2012	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: Lease Number Correction
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Kerr-McGee is requesting approval to correct the lease number from UT ST UO 01997-A ST to UT ST UO 01197-A ST for various well locations. Please see attached well list.

Thank you!

NAME (PLEASE PRINT) Gina T Becker TITLE Senior Regulatory Analyst

SIGNATURE [signature] DATE 4/23/2012

(This space for State use only)

RECEIVED
APR 24 2012
Div. of Oil, Gas & Mining

(5/2000) (See Instructions on Reverse Side)

	API UWI NO	WELL NAME	SL STATE	SL SECTION	SL TOWNSHIP	SL RANGE	SL COUNTY NAME	GOV LEASE NO	FEDERAL LEASE NO
1	4304751951	NBU 1022-12A1BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
2	4304751952	NBU 1022-12A1CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
3	4304751991	NBU 1022-12A4BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
4	4304751986	NBU 1022-12A4CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
5	4304751944	NBU 1022-12B1BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
6	4304751980	NBU 1022-12B1CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
7	4304751982	NBU 1022-12B4BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
8	4304751983	NBU 1022-12B4CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
9	4304751979	NBU 1022-12C1BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
10	4304751981	NBU 1022-12C1CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
11	4304751984	NBU 1022-12C4BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
12	4304751985	NBU 1022-12C4CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
13	4304751989	NBU 1022-12D1BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
14	4304751987	NBU 1022-12D1CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
15	4304751990	NBU 1022-12D4BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
16	4304751992	NBU 1022-12D4CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
17	4304751988	NBU 1022-12E1BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
18	4304751993	NBU 1022-12E1CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
19	4304751994	NBU 1022-12E4BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
20	4304751996	NBU 1022-12F1BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
21	4304751997	NBU 1022-12F1CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
22	4304751995	NBU 1022-12F4BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
23	4304751967	NBU 1022-12E4CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
24	4304751964	NBU 1022-12F4CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
25	4304751965	NBU 1022-12K1BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
26	4304751966	NBU 1022-12K1CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
27	4304751970	NBU 1022-12K4BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
28	4304751971	NBU 1022-12K4CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
29	4304751974	NBU 1022-12G1BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
30	4304751963	NBU 1022-12G1CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
31	4304751972	NBU 1022-12G4BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
32	4304751977	NBU 1022-12G4CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
33	4304751973	NBU 1022-12H1BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
34	4304751942	NBU 1022-12H1CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
35	4304751941	NBU 1022-12H4BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
36	4304751975	NBU 1022-12H4CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
37	4304751976	NBU 1022-12I1BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
38	4304751978	NBU 1022-12I1CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
39	4304751958	NBU 1022-12I4BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
40	4304751957	NBU 1022-12J1BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
41	4304751955	NBU 1022-12J1CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
42	4304751960	NBU 1022-12J4BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
43	4304751956	NBU 1022-12J4CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
44	4304751959	NBU 1022-12N1BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
45	4304751961	NBU 1022-12N1CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
46	4304751943	NBU 1022-12N4BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
47	4304751945	NBU 1022-12N4CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
48	4304751962	NBU 1022-12I4CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
49	4304751968	NBU 1022-12P1BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A

	API UWI NO	WELL NAME	SL STATE	SL SECTION	SL TOWNSHIP	SL RANGE	SL COUNTY NAME	GOV LEASE NO	FEDERAL LEASE NO
50	4304751969	NBU 1022-12P4BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
51	4304751947	NBU 1022-12P4CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
52	4304751949	NBU 1022-12O1BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
53	4304751950	NBU 1022-12O1CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
54	4304751953	NBU 1022-12O4BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
55	4304751954	NBU 1022-12O4CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A

SUBMIT AS EMAIL | Print Form

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG
Submitted By GINA BECKER Phone Number 720.929.6086
Well Name/Number NBU 1022-12J4BS
Qtr/Qtr SWSE Section 12 Township 10S Range 22E
Lease Serial Number UT ST UO 01997-A ST
API Number 4304751960

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 05/01/2012 18:00 HRS AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☑ Surface Casing
- ☐ Intermediate Casing
- ☐ Production Casing
- ☐ Liner
- ☐ Other

Date/Time 05/16/2012 08:00 HRS AM ☐ PM ☐

BOPE

- ☐ Initial BOPE test at surface casing point
- ☐ BOPE test at intermediate casing point
- ☐ 30 day BOPE test
- ☐ Other

RECEIVED
MAY 01 2012
DIV OF OIL, GAS & MINING

Date/Time _____ _____ AM ☐ PM ☐

Remarks ESTIMATED DATE AND TIME. PLEASE CONTACT KENNY GATHINGS AT 435.828.0986 OR LOVEL YOUNG AT 435.781.7051

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UT ST UO 01197-

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 1022-12J4BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047519600000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6515

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1249 FSL 2346 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 12 Township: 10.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☑ SPUD REPORT Date of Spud: 5/1/2012	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU TRIPLE A BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 CONDUCTOR PIPE. CEMENT WITH 28 SACKS READY MIX. SPUD WELL LOCATION ON MAY 1, 2012 AT 15:00 HRS.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
May 14, 2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jaime Scharnowske	720 929-6304	Regulartory Analyst
SIGNATURE N/A		**DATE** 5/14/2012

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UT ST UO 01197-

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 1022-12J4BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047519600000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6515

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1249 FSL 2346 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 12 Township: 10.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 5/17/2012	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU AIR RIG ON 5/15/2012. DRILLED SURFACE HOLE TO 2377'. RAN SURFACE CASING AND CEMENTED. WELL IS WAITING ON ROTARY RIG. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH WELL COMPLETION REPORT.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
May 18, 2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Cara Mahler	720 929-6029	Regulatory Analyst I
SIGNATURE N/A		**DATE** 5/18/2012

RECEIVED: May. 18, 2012

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UT ST UO 01197-

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 1022-12J4BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047519600000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6526

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1249 FSL 2346 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 12 Township: 10.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 5/15/2012	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Pit Refurb/ACTS

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Kerr-McGee Oil & Gas Onshore, LP is requesting to refurb the existing pit on this multi-well pad for completion operations. The refurb pit will be relined per the requirements in the COA of the APD. Upon completion of the wells on this pad, Kerr-McGee is also requesting to utilize this pit as an ACTS staging pit to be utilized for other completion operations in the area. The trucks will unload water into these tanks before the water is placed into the refurbed pit. The purpose of the frac tanks is to collect any hydro-carbons that may have been associated with the other completion operations before releasing into the pit. We plan to keep this pit open for 1 year. During this time the surrounding well location completion fluids will be recycled in this pit and utilized for other frac jobs in the surrounding sections. Thank you.

Approved by the Utah Division of Oil, Gas and Mining

Date: May 29, 2012

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Gina Becker	720 929-6086	Regulatory Analyst II
SIGNATURE N/A		**DATE** 5/14/2012

RECEIVED: May. 14, 2012

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Sundry Conditions of Approval Well Number 43047519600000

A synthetic liner with a minimum thickness of 30 mils with a felt subliner shall be properly installed and maintained in the pit.

RECEIVED: May. 29, 2012

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP
Operator Account Number: N 2995
Address: P.O. BOX 173779
city DENVER
state CO zip 80217
Phone Number: (720) 929-6247

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751945	NBU 1022-12N4CS		SWSE	12	10S	22E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
B	99999	2900	5/1/2012			5/16/2012	
Comments: MIRU BUCKET RIG. SPUD WELL ON 05/01/2012 AT 0830 HRS. WSMVD BHL: SESW —							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751961	NBU 1022-12N1CS		SWSE	12	10S	22E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
B	99999	2900	5/1/2012			5/16/2012	
Comments: MIRU BUCKET RIG. SPUD WELL ON 05/01/2012 AT 1200 HRS. WSMVD BHL SESW —							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751960	NBU 1022-12J4BS		SWSE	12	10S	22E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
B	9999	2900	5/1/2012			5/16/2012	
Comments: MIRU BUCKET RIG. SPUD WELL ON 05/01/2012 AT 1500 HRS. WSMVD BHL: NWSE —							

ACTION CODES:
- **A** - Establish new entity for new well (single well only)
- **B** - Add new well to existing entity (group or unit well)
- **C** - Re-assign well from one existing entity to another existing entity
- **D** - Re-assign well from one existing entity to a new entity
- **E** - Other (Explain in 'comments' section)

RECEIVED
MAY 11 2012
Div. of Oil, Gas & Mining

JENN HAWKINS
Name (Please Print)
Signature
OPERATIONS SPECIALIST III 5/9/2012
Title Date

(5/2000)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER:
UT ST UO 01197-

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:
NATURAL BUTTES

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
NBU 1022-12J4BS

2. NAME OF OPERATOR:
KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER:
43047519600000

3. ADDRESS OF OPERATOR:
P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER:
720 929-6515

9. FIELD and POOL or WILDCAT:
NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
1249 FSL 2346 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: SWSE Section: 12 Township: 10.0S Range: 22.0E Meridian: S

COUNTY:
UINTAH

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 7/6/2012	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

No activity for the month of June 2012. Surface casing set at 2,377'.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
July 09, 2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jaime Scharnowske	720 929-6304	Regulartory Analyst
SIGNATURE		**DATE**
N/A		7/6/2012

RECEIVED: Jul. 06, 2012

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER:
UT ST UO 01197-

SUNDRY NOTICES AND REPORTS ON WELLS

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6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:
NATURAL BUTTES

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
NBU 1022-12J4BS

2. NAME OF OPERATOR:
KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER:
43047519600000

3. ADDRESS OF OPERATOR:
P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER:
720 929-6515

9. FIELD and POOL or WILDCAT:
NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
1249 FSL 2346 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: SWSE Section: 12 Township: 10.0S Range: 22.0E Meridian: S

COUNTY:
UINTAH

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 8/3/2012	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
No activity for the month of July 2012. Surface casing set at 2,377'.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
August 07, 2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jaime Scharnowske	720 929-6304	Regulartory Analyst
SIGNATURE		**DATE**
N/A		8/3/2012

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER:
UT ST UO 01197-

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:
NATURAL BUTTES

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
NBU 1022-12J4BS

2. NAME OF OPERATOR:
KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER:
43047519600000

3. ADDRESS OF OPERATOR:
P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER:
720 929-6515

9. FIELD and POOL or WILDCAT:
NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
1249 FSL 2346 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: SWSE Section: 12 Township: 10.0S Range: 22.0E Meridian: S

COUNTY:
UINTAH

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 9/5/2012	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

No Activity for the month of August 2012. Well TD at 2,377.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
September 10, 2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jaime Scharnowske	720 929-6304	Regulartory Analyst
SIGNATURE		**DATE**
N/A		9/5/2012

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UT ST UO 01197-

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 1022-12J4BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047519600000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6515

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1249 FSL 2346 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 12 Township: 10.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 10/3/2012	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

No Activity for the month of September 2012. Well TD at 2,377.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
October 04, 2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jaime Scharnowske	720 929-6304	Regulartory Analyst
SIGNATURE N/A		**DATE** 10/3/2012

RECEIVED: Oct. 03, 2012

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER:
UT ST UO 01197-

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:
NATURAL BUTTES

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
NBU 1022-12J4BS

2. NAME OF OPERATOR:
KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER:
43047519600000

3. ADDRESS OF OPERATOR:
P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER:
720 929-6515

9. FIELD and POOL or WILDCAT:
NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
1249 FSL 2346 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: SWSE Section: 12 Township: 10.0S Range: 22.0E Meridian: S

COUNTY:
UINTAH

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 11/5/2012	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

No Activity for the month of October 2012. Well TD at 2,377.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
November 05, 2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jaime Scharnowske	720 929-6304	Regulartory Analyst
SIGNATURE		**DATE**
N/A		11/5/2012

RECEIVED: Nov. 05, 2012

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER:
UT ST UO 01197-

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:
NATURAL BUTTES

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
NBU 1022-12J4BS

2. NAME OF OPERATOR:
KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER:
43047519600000

3. ADDRESS OF OPERATOR:
P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER:
720 929-6526

9. FIELD and POOL or WILDCAT:
NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
1249 FSL 2346 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: SWSE Section: 12 Township: 10.0S Range: 22.0E Meridian: S

COUNTY:
UINTAH

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 12/4/2012	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

No Activity for the month of November 2012. Well TD at 2,377.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
December 04, 2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Lindsey Frazier	720 929-6857	Regulatory Analyst II
SIGNATURE		**DATE**
N/A		12/4/2012

RECEIVED: Dec. 04, 2012

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER:
UT ST UO 01197-

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:
NATURAL BUTTES

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
NBU 1022-12J4BS

2. NAME OF OPERATOR:
KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER:
43047519600000

3. ADDRESS OF OPERATOR:
P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER:
720 929-6526

9. FIELD and POOL or WILDCAT:
NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
1249 FSL 2346 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: SWSE Section: 12 Township: 10.0S Range: 22.0E Meridian: S

COUNTY:
UINTAH

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 1/2/2013	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

No Activity for the month of December 2012. Well TD at 2,377

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
January 03, 2013

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Lindsey Frazier	720 929-6857	Regulatory Analyst II
SIGNATURE		**DATE**
N/A		1/2/2013

RECEIVED: Jan. 02, 2013

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: UT ST UO 01197-

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 1022-12J4BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047519600000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6515

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1249 FSL 2346 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 12 Township: 10.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 2/4/2013	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

No Activity for the month of January 2013. Well TD at 2,377

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
February 07, 2013

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Laura Abrams	720 929-6356	Regulatory Analyst II
SIGNATURE		**DATE**
N/A		2/4/2013

RECEIVED: Feb. 04, 2013

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UT ST UO 01197-

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 1022-12J4BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047519600000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6515

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1249 FSL 2346 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 12 Township: 10.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 3/5/2013	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

No Activity for the month of February 2013. Well TD at 2,377

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
March 04, 2013

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Laura Abrams	720 929-6356	Regulatory Analyst II
SIGNATURE N/A		**DATE** 3/4/2013

RECEIVED: Mar. 04, 2013

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UT ST UO 01197-

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 1022-12J4BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047519600000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6526

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1249 FSL 2346 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 12 Township: 10.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 4/4/2013	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

No Activity for the month of March 2013. Well TD at 2,377

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
April 05, 2013

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Luke Urban	720 929-6501	Regulatory Specialist
SIGNATURE N/A		**DATE** 4/4/2013

RECEIVED: Apr. 04, 2013

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UT ST UO 01197-

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 1022-12J4BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047519600000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6526

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1249 FSL 2346 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 12 Township: 10.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 4/29/2013	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	✓ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The operator requests approval for changes in the drilling plan. Specifically, the operator requests approval for a FIT wavier, closed loop drilling option, and a production casing change. The production casing change includes a switch from 4.5 inch I-80 11.6 BTC/LTC casing to 4.5 inch HCP 110 11.6 LB Ultra DQX/LTC casing. All other aspects of the previously approved drilling plan will not change. Please see closed loop attachment.

Approved by the Utah Division of Oil, Gas and Mining

Date: May 02, 2013

By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Teena Paulo	720 929-6236	Staff Regulatory Specialist
SIGNATURE N/A		**DATE** 4/29/2013

RECEIVED: Apr. 29, 2013

Requested Drilling Options:

Kerr-McGee will use either a closed loop drilling system that will require one pit and one cuttings storage area to be constructed on the drilling pad or a traditional drilling operation with one pit used for drilling and completion operations. The cuttings storage area will be used to contain only the de-watered drill cuttings and will be lined and bermed to prevent any liquid runoff. The drill cuttings will be buried in the completion pit once completion operations are completed according to traditional pit closure standards. The pit will be constructed to allow for completion operations. The completion operations pit will be lined with a synthetic material 20 mil or thicker and will be used for the completing of the wells on the pad or used as part of our Aandarko Completions Transportation System (ACTS). Using the closed loop drilling system will allow Kerr-McGee to decrease the amount of disturbance/footprint on location compared to a single large drilling/completions pit.

If Kerr-McGee does not use a closed loop drilling system, it will construct a traditional drilling/completions pit to contain drill cuttings and for use in completion operations. The pit will be lined with a synthetic material 20 mil or thicker. The drill cuttings will be buried in the pit using traditional pit closure standards.

RECEIVED: Apr. 29, 2013

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER:
UT ST UO 01197-

SUNDRY NOTICES AND REPORTS ON WELLS

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6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:
NATURAL BUTTES

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
NBU 1022-12J4BS

2. NAME OF OPERATOR:
KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER:
43047519600000

3. ADDRESS OF OPERATOR:
P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER:
720 929-6515

9. FIELD and POOL or WILDCAT:
NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
1249 FSL 2346 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: SWSE Section: 12 Township: 10.0S Range: 22.0E Meridian: S

COUNTY:
UINTAH

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 5/3/2013	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

No Activity for the month of April 2013. Well TD at 2,377.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
May 03, 2013

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jaime Scharnowske	720 929-6304	Regulartory Analyst
SIGNATURE		**DATE**
N/A		5/3/2013

RECEIVED: May. 03, 2013

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: UT ST UO 01197-

SUNDRY NOTICES AND REPORTS ON WELLS

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7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 1022-12J4BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047519600000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6526

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1249 FSL 2346 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 12 Township: 10.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 6/5/2013	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

No actitivy for the month of May 2013. Well TD at Drilled to 2,377 ft.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
June 06, 2013

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Teena Paulo	720 929-6236	Staff Regulatory Specialist
SIGNATURE N/A		**DATE** 6/5/2013

RECEIVED: Jun. 05, 2013

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: UT ST UO 01197-

SUNDRY NOTICES AND REPORTS ON WELLS

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6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 1022-12J4BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047519600000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6526

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1249 FSL 2346 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 12 Township: 10.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 7/1/2013	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

No actitivy for the month of June 2013. Well TD at Drilled to 2,377 ft.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
July 01, 2013

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Teena Paulo	720 929-6236	Staff Regulatory Specialist
SIGNATURE N/A		**DATE** 7/1/2013

RECEIVED: Jul. 01, 2013

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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5.LEASE DESIGNATION AND SERIAL NUMBER: UT ST UO 01197-

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 1022-12J4BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047519600000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6526

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1249 FSL 2346 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 12 Township: 10.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 8/5/2013	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

No actitivy for the month of July 2013. Well TD at 2,392 ft.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
August 08, 2013

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Teena Paulo	720 929-6236	Staff Regulatory Specialist
SIGNATURE N/A		**DATE** 8/5/2013

RECEIVED: Aug. 05, 2013

State of Utah - Notification Form

Operator Anadarko Petroleum Rig Name/# PIONEER 54
Submitted By SYD GRIFFIN Phone Number 435-790-2921
Well Name/Number NBU 1022-12J4BS
Qtr/Qtr SW/SE Section 12 Township 10S Range 22E
Lease Serial Number UT ST UO 01997-A ST
API Number 4304751960

Casing – Time casing run starts, not cementing times.

☒ Production Casing
☐ Other

Date/Time 8/3/13 12 AM ☒ PM ☐

BOPE
☐ Initial BOPE test at surface casing point
☐ Other

Date/Time _ _ AM ☐ PM ☐

RECEIVED
AUG 01 2013
DIV. OF OIL, GAS & MINING

Rig Move
Location To: NBU 1022-12P O PAD

Date/Time __ _ AM ☐ PM ☐

Remarks WELL 5 OF 6 ON THE NBU 1022-12 O PAD
TIMES ARE APPROXIMATE

State of Utah - Notification Form

Operator Anadarko Petroleum Rig Name/# PIONEER 54
Submitted By SYD GRIFFIN Phone Number 435-790-2921
Well Name/Number NBU 1022-12J4BS
Qtr/Qtr SW/SE Section 12 Township 10S Range 22E
Lease Serial Number UT ST UO 01997-A ST
API Number 4304751960

Casing – Time casing run starts, not cementing times.

☒ Production Casing
☐ Other

Date/Time 8/3/13 12 AM ☒ PM ☐

BOPE
☐ Initial BOPE test at surface casing point
☐ Other

Date/Time _ _ AM ☐ PM ☐

RECEIVED
AUG 01 2013
DIV. OF OIL, GAS & MINING

Rig Move
Location To: NBU 1022-12P O PAD

Date/Time __ _ AM ☐ PM ☐

Remarks WELL 5 OF 6 ON THE NBU 1022-12 O PAD
TIMES ARE APPROXIMATE

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER:
UT ST UO 01197-

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:
NATURAL BUTTES

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
NBU 1022-12J4BS

2. NAME OF OPERATOR:
KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER:
43047519600000

3. ADDRESS OF OPERATOR:
P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER:
720 929-6526

9. FIELD and POOL or WILDCAT:
NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
1249 FSL 2346 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: SWSE Section: 12 Township: 10.0S Range: 22.0E Meridian: S

COUNTY:
UINTAH

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 9/4/2013	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Drilled to 8,540 ft. in August 2013.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
October 02, 2013

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Matthew P Wold	720 929-6993	Regulatory Analyst I
SIGNATURE		**DATE**
N/A		9/4/2013

RECEIVED: Sep. 04, 2013

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 1022-12J4BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047519600000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6526

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1249 FSL 2346 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 12 Township: 10.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

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☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 10/4/2013	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Started completing the well. Well TD at 8,540 ft.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
October 07, 2013

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Teena Paulo	720 929-6236	Staff Regulatory Specialist
SIGNATURE N/A		**DATE** 10/4/2013

RECEIVED: Oct. 04, 2013

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: UT ST UO 01197-

SUNDRY NOTICES AND REPORTS ON WELLS

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7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 1022-12J4BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047519600000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6582

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1249 FSL 2346 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 12 Township: 10.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 10/22/2013	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	✓ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE SUBJECT WELL WAS PLACED ON PRODUCTION 10/22/2013. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
October 28, 2013

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Kay E. Kelly	720 929 6582	Regulatory Analyst
SIGNATURE N/A		**DATE** 10/25/2013

RECEIVED: Oct. 25, 2013

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UT ST UO 01197-

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 1022-12J4BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047519600000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6526

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1249 FSL 2346 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 12 Township: 10.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 11/26/2013	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

FINISHED DRILLING TO 8540 ON 8/3/2013. CEMENTED PRODUCTION CASING. RELEASED PIONEER 54 RIG ON 8/4/2013. DETAILS OF CASING AND CEMENT WAS INCLUDED WITH THE WELL COMPLETION REPORT.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
November 26, 2013

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Teena Paulo	720 929-6236	Staff Regulatory Specialist
SIGNATURE N/A		**DATE** 11/26/2013

API Well Number: 43047519600000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ (highlight changes) FORM 8

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER: UT ST UO 01197-A ST

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ DRY ☐ OTHER

7. UNIT or CA AGREEMENT NAME: UTU63047A

b. TYPE OF WORK: NEW WELL ☑ HORIZ. LATS ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER

8. WELL NAME and NUMBER: NBU 1022-12J4BS

2. NAME OF OPERATOR: KERR-MCGEE OIL AND GAS ONSHORE LP

9. API NUMBER: 43-047-51960

3. ADDRESS OF OPERATOR: P.O. Box 173779 CITY Denver STATE Co ZIP 82017

PHONE NUMBER: 720-929-6000

10 FIELD AND POOL, OR WILDCAT: Natural Buttes

4. LOCATION OF WELL (FOOTAGES)

AT SURFACE: SWSE 1249 FSL 2346 FEL

AT TOP PRODUCING INTERVAL REPORTED BELOW: NWSE 1729 FSL 1819 FEL

AT TOTAL DEPTH: NWSE 1742 FSL 1805 FEL

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSE 12 10S 22E SLB

12. COUNTY: UINTAH

13. STATE: UTAH

14. DATE SPUDDED: 5/1/2012

15. DATE T. D. REACHED: 8/3/2013

16. DATE COMPLETED: 10/22/2013 ABANDONED ☐ READY TO PRODUCE ☑

17. ELEVATIONS (DF, RKB, RT, GL): 5250 RKB

18. TOTAL DEPTH: MD 8540 TVD 8445

19. PLUG BACK T.D.: MD 8508 TVD 8412

20. IF MULTIPLE COMPLETIONS, HOW MANY? *

21. DEPTH BRIDGE PLUG SET: MD TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)

Compact Trip Com Quick Look-AI-Comp Photo Den/Comp Dual Neutron-HV Cal-CBL/GR/CCL/TEMP

23

WAS WELL CORED? NO ☑ YES ☐ (Submit analysis)

WAS DST RUN? NO ☑ YES ☐ (Submit report)

DIRECTIONAL SURVEY? NO ☐ YES ☑ (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20	14 STL	36.7	0	40		28			
11	8.63 J-55	28	19	2363		575		0	
7.875	4.5 N-80	11.6	19	8532		1435		400	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2.375	7793							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) MESAVERDE	6350	8411		
(B)				
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)		SIZE	NO. HOLES	PERFORATION STATUS
6,350	8,411	0.36	159	Open ☑ Squeezed ☐
				Open ☐ Squeezed ☐
				Open ☐ Squeezed ☐
				Open ☐ Squeezed ☐

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INERVAL	AMOUNT AND TYPE OF MATERIAL
6350-8411	PUMP 8,384 BBL SLICKWATER AND 159,067 LBS 30/50 MESH SAND
	7 STAGES

29. ENCLOSED ATTACHMENTS:

☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGICAL REPORT ☐ DST REPORT ☑ DIRECTIONAL SURVEY

☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER:

30. WELL STATUS: PRODUCING

(5/2000)

(CONTINUED ON BACK)

RECEIVED: Nov. 18, 2013

API Well Number: 43047519600000

31. INITIAL PRODUCTION

INTERVAL A (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
10/22/2013	10/26/2013	24		21	2596	0	Flowing

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS
20/64	1647	2030					21	2596	0	Producing

INTERVAL B (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS

INTERVAL C (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS

INTERVAL D (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

SOLD

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				GREEN RIVER	1350
				BIRD'S NEST	1647
				MAHOGANY	1891
				WASATCH	4207
				MESAVERDE	6290

35. ADDITIONAL REMARKS (Include plugging procedures)

The first 210 ft. of the surface hole was drilled with a 12 ¼ in. bit. The remainder of surface hole was drilled with an 11 in. bit. DQX csg was run from surface to 5027 ft.; LTC csg was run from 5027 ft. to 8532 ft. Attached is the chronological well history, perforation report & final survey.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Teena Paulo TITLE Staff Regulatory Specialist

SIGNATURE DATE 11-18-2013

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratgraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top - Show how reported top(s) of cement were determined (cirulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

(5/2000)

RECEIVED: Nov. 18, 2013

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-12J4BS GREEN		Spud Date: 5/15/2012	
Project: UTAH-UINTAH	Site: NBU 1022-12O PAD		Rig Name No: PROPETRO 12/12, PIONEER 54/54
Event: DRILLING	Start Date: 4/25/2012		End Date: 8/4/2013
Active Datum: RKB @5,250.00usft (above Mean Sea Level)	UWI: SW/SE/0/10/S/22/E/12/0/0/26/PM/S/1249/E/0/2346/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
5/15/2012	13:30 - 14:30	1.00	PRPSPD	01	B	P		SKID RIG, SAFETY AND RIG INSPECTION, RIG UP, PREPARE TO SPUD
	14:30 - 15:00	0.50	PRPSPD	07	A	P		PRE SPUD JOB SAFETY MEETING / FINISH PICKING UP BHA. PICK UP NOV 1.83 DEGREE BENT MOTOR (RUN # 1)- .17 REV/GAL SN (775-77259). REINSTALL FLOWLINE AND CONTROL LINES TO FLOOR.
	15:00 - 16:30	1.50	DRLSUR	02	D	P		SPUD 05/15/2012 15:00 hrs. DRILL 12.25" HOLE 44 ft TO 210 ft (166', 110'/PER HOUR). 12.25 in. BIT ON 47 th RUN. WOB 5-15 Kips. STROKES PER MINUTE 120 GALLONS PER MINUTE 491. PRESSURE ON/OFF (BOTTOM) 800/600. SURFACE RPM 55, MOTOR 83, TOTAL RPM 138. UP/DOWN/ ROT 20/20/20 K. DRAG 0 Kips . CIRCULATE CLOSED LOOP SYSTEM WITH 8.5# WATER. DRILL DOWN TO 210' WITH 6" DRILL COLLARS.
	16:30 - 19:00	2.50	DRLSUR	06	A	P		CIRC 15 MINUTES AND, TRIP OUT TO CHANGE ASSEMBLY. PRE JOB SAFETY MEETING, LAY DOWN 6" DRILL COLLARS, BREAK 12 1/4" BIT. MAKE UP Q506F 11in BIT (9 th RUN) (SN 7030058) PICK UP 8" DIRECTIONAL ASSEMBLY. INSTALL EM TOOL. TRIP IN HOLE.
	19:00 - 0:00	5.00	DRLSUR	02	D	P		DRILL 11". SURFACE HOLE 210'-950', (740', 148'/PER HOUR). WOB 15-25 K. STROKES PER MINUTE 120 GALLONS PER MINUTE 491. PRESSURE ON/OFF(BOTTOM) 810/600. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROT 47/45/46 K. DRAG 1 K. SLIDING 10' PER 90'OF ROTATION GETTING 1.8 DEGREE BUILD RATES CIRCULATE CLOSED LOOP SYSTEM WITH 8.6# WATER. RUNNING VOLUME OVER BOTH SHAKERS NO HOLE ISSUES.

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-12J4BS GREEN		Spud Date: 5/15/2012	
Project: UTAH-UINTAH	Site: NBU 1022-12O PAD		Rig Name No: PROPETRO 12/12, PIONEER 54/54
Event: DRILLING	Start Date: 4/25/2012		End Date: 8/4/2013
Active Datum: RKB @5,250.00usft (above Mean Sea Level)	UWI: SW/SE/0/10/S/22/E/12/0/0/26/PM/S/1249/E/0/2346/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
5/16/2012	0:00 - 5:30	5.50	DRLSUR	02	D	P		DRILL 11". SURFACE HOLE 950'-1580', (630', 114'/PER HOUR). WOB 15-25 K. STROKES PER MINUTE 120 GALLONS PER MINUTE 491. PRESSURE ON/OFF(BOTTOM) 810/600, DIFFERNTIAL 210 ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROT 47/45/46 K. DRAG 1 K. SLIDING 10' PER 90' OF ROTATION GETTING 1.8 DEGREE BUILD RATES CIRCULATE CLOSED LOOP SYSTEM WITH 8.6# WATER. RUNNING VOLUME OVER BOTH SHAKERS NO HOLE ISSUES.
	5:30 - 9:30	4.00	DRLSUR	08	A	Z		THE HYDRAULIC PUMP FOR UP DOWN ROTATE, BLEW A GASKET. REPAIR HYDRAULIC PUMP. DOWN FOR RIG REPAIR FOR ROUR HOURS.
	9:30 - 18:30	9.00	DRLSUR	02	D	P		DRILL 11". SURFACE HOLE 1580'-2377', (797', 69'/HOUR). TD @ 05/16/2012 18:30 WOB 15-25 K. STROKES PER MINUTE 120 GALLONS PER MINUTE 491. PRESSURE ON/OFF(BOTTOM) 1270/970, DIFERENTIAL 300. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROT 85/61/71 K. DRAG 14 K. CIRCULATE CLOSED LOOP SYSTEM WITH 8.6# WATER. RUNNING VOLUME OVER BOTH SHAKERS LOST RETURNS @ 1100' PUT AIR ON THE HOLE @ 1800 CFM
	18:30 - 20:30	2.00	CSGSUR	05	C	P		CIRCULATE AND, CONDITION WELLBORE FOR CASING RUN NO CUTTINGS COMMING OVER SHAKERS
	20:30 - 23:30	3.00	CSGSUR	06	D	P		TRIP OUT OF HOLE, LAY DOWN BOTTOM HOLE ASSEMBLY, DIRECTIONAL TOOLS, MOTOR AND, BIT. LAY DOWN DIRECTIONAL TOOLS. CLEAR TOOL AREA.
	23:30 - 0:00	0.50	CSGSUR	06	A	P		PRE JOB SAFETY MEETING, MOVE PIPE RACKS AND CATWALK. PULL DIVERTER HEAD. RIG UP TO RUN SURFACE CASING. CLEAR UNRELATED TOOLS.
5/17/2012	0:00 - 2:00	2.00	CSGSUR	06	A	P		PRE JOB SAFETY MEETING, MOVE PIPE RACKS AND CATWALK. PULL DIVERTER HEAD. RIG UP TO RUN SURFACE CASING. CLEAR UNRELATED TOOLS.
	2:00 - 4:00	2.00	CSGSUR	12	C	P		RUN 53 JOINTS OF 8-5/8". 28# J-55 LTC CASING. RAN 1 CENTRALIZER ON FIRST THREE JOINTS, AND EVERY OTHER JOINT FOR 5 JOINTS FOR A TOTAL OF 8 CENTRALIZERS. RUN A TOTAL OF 53 JOINTS. SET FLOAT SHOE @ 2347.56' KB. SET TOP OF BAFFLE PLATE @ 2301.46' KB.

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-12J4BS GREEN		Spud Date: 5/15/2012	
Project: UTAH-UINTAH	Site: NBU 1022-12O PAD		Rig Name No: PROPETRO 12/12, PIONEER 54/54
Event: DRILLING	Start Date: 4/25/2012		End Date: 8/4/2013
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Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	4:00 - 6:00	2.00	CSGSUR	12	E	P		RAN 200 ft OF 1 lin. PIPE DOWN BACK-SIDE OF CASING. PRE JOB SAFETY MEETING, PRESSURE TEST LINES TO 2000 PSI. PUMP 130 BBLS OF WATER AHEAD. MIX AND PUMP 20 BBLS OF 8.5# GEL WATER AHEAD. MIX AND PUMP (300 sx) 61.4 BBLS OF 15.8.8# 1.15 YIELD. DROP PLUG ON FLY. DISPLACE W/ 143 BBLS OF H2O. NO RETURNS THROUGH OUT JOB. FINAL LIFT OF 200 PSI AT 3 BBL/MIN. BUMP THE PLUGG WITH 500 PSI, HELD 500 PSI FOR 5 MINUTES, TESTED FLOAT AND FLOAT HELD. SHUT DOWN AND WASH UP.
	6:00 - 7:30	1.50	CSGSUR	12	E	P		PUMP CEMENT DOWN ONE INCH PIPE WITH 150 sx (30.7 bbls.)SAME CEMENT NO RETURNS TO SURFACE. SHUT DOWN AND WASH UP.
	7:30 - 8:30	1.00	CSGSUR	12	E	P		WAIT 1.5 HOURS ON CEMENT, CEMENT DOWN BACKSIDE W/ 125 sx (25.6 bbls.) SAME CEMENT NO RETURNS TO SURFACE. RIG DOWN CEMENTERS. (CEMENT JOB FINISHED AT 07:45 hrs. 05/17/2012) RELEASE RIG AT 08:30 hrs. 05/17/2012
8/1/2013	0:00 - 1:00	1.00	MIRU3	01	C	P	2392	SKID RIG 20', TO NBU 1022-12J4BS, ALIGN OVER WELL
	1:00 - 2:30	1.50	PRPSPD	14	A	P	2392	N/U BOPE
	2:30 - 6:00	3.50	PRPSPD	15	A	P	2392	R/U B&C ,TEST BLIND RAMS, PIPE RAMS , FLOOR VALVE, KILL LINES & KILL LINE VALVES, BOP WING VALVES , HCR VALVE + CHOKE LINE; INNER AND OUTER CHOKE VALVES & MANIFOLD TO 250 PSI LOW @ 5 MINUTES + 5000 PSI HIGH @ 10 MINUTES / TEST ANNULAR TO 250 PSI LOW @ 5 MINUTES + 2500 PSI HIGH,CASING 1,500 FOR 30 MIN
	6:00 - 6:30	0.50	PRPSPD	14	B	P	2392	INSTALL WEAR BUSHING
	6:30 - 8:30	2.00	PRPSPD	06	A	P	2392	MAKE UP SMITH BIT & I DART RECORDER,M MTR,DIR TOOLS ,TIH TO 2,248, FILL PIPE
	8:30 - 9:30	1.00	DRLPRC	02	F	P	2392	TAG CEMENT @ 2,248' / DRILL FLOAT TRAC -BAFFLE @2,314 SHOE @ 2,337' NEW HOLE @ 2,392'

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-12J4BS GREEN		Spud Date: 5/15/2012	
Project: UTAH-UINTAH	Site: NBU 1022-12O PAD		Rig Name No: PROPETRO 12/12, PIONEER 54/54
Event: DRILLING	Start Date: 4/25/2012		End Date: 8/4/2013
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Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	9:30 - 16:30	7.00	DRLPRC	02	B	P	2392	DRILL /SLIDE / SURVEY / F/ 2,392 TO 3,590'= 1,198' =171.4 FPH WOB 22,000-26,000 TOP DRIVE RPM 60-65 MUD MOTOR RPM 135 PUMPS 200 SPM = 586 GPM PUMP PRESSURE ON/OFF BTM 2,150/1,1800 TORQUE ON/OFF BTM 8,075/5,000 PICK UP WT 95K SLACK OFF WT 74K ROT WT 85 SLIDE 122' IN 85 MIN. 10% OF FOOTAGE DRILLED, 20.2%OF HRS DRILLED NO FLUID LOST PUMPING 10-15 BBL SWEEPS EVERY STAND,W/ 3-4% CAL CARB & CEADER FIBER , NUT SHELL MUD WT 8.5 VIS 30 NOV-D WATER
	16:30 - 17:00	0.50	DRLPRC	07	A	P	3590	RIG SREVICE
	17:00 - 0:00	7.00	DRLPRV	02	B	P	3590	DRILL /SLIDE / SURVEY / F/ 3,590 T/ 5,102'= 1,512' =216' FPH WOB 22,000-26,000 TOP DRIVE RPM 60-65 MUD MOTOR RPM 135 PUMPS 200 SPM = 586 GPM PUMP PRESSURE ON/OFF BTM 2,300/1,800 TORQUE ON/OFF BTM 9,400/5,200 PICK UP WT 123K SLACK OFF WT 80K ROT WT 105K SLIDE 18' IN 10 MIN. 1.2% OF FOOTAGE DRILLED, .2%OF HRS DRILLED NO FLUID LOST PUMPING 10-15 BBL SWEEPS EVERY STAND,W/ 3-4% CAL CARB & CEADER FIBER , NUT SHELL MUD WT 8.5 VIS 30 NOV-D WATER
8/2/2013	0:00 - 6:00	6.00	DRLPRV	02	B	P	5102	DRILL /SLIDE / SURVEY / F/ 5,102 T/ 6102'= 1,002' =266' FPH WOB 22,000-26,000 TOP DRIVE RPM 60-65 MUD MOTOR RPM 135 PUMPS 200 SPM = 586 GPM PUMP PRESSURE ON/OFF BTM 2,300/1,800 TORQUE ON/OFF BTM 9,400/5,200 PICK UP WT 150K SLACK OFF WT 100K ROT WT 128K SLIDE 18' IN 10 MIN. 1.2% OF FOOTAGE DRILLED, .2%OF HRS DRILLED NO FLUID LOST PUMPING 10-15 BBL SWEEPS EVERY STAND,W/ 3-4% CAL CARB & CEADER FIBER , NUT SHELL MUD WT 8.5 VIS 30 NOV-D WATER

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-12J4BS GREEN		Spud Date: 5/15/2012	
Project: UTAH-UINTAH	Site: NBU 1022-12O PAD		Rig Name No: PROPETRO 12/12, PIONEER 54/54
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Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:00 - 17:00	11.00	DRLPRV	02	B	P	6102	DRILL /SLIDE / SURVEY / F/ 6,102' T/ 7,465'= 1,365' =124' FPH WOB 22,000-26,000 TOP DRIVE RPM 60-65 MUD MOTOR RPM 135 PUMPS 200 SPM = 586 GPM PUMP PRESSURE ON/OFF BTM 2,300/1,800 TORQUE ON/OFF BTM 13,200/9100 PICK UP WT 166K SLACK OFF WT 128K ROT WT 148 SLIDE 112' IN 70 MIN. 12.1% OF FOOTAGE DRILLED, 9.42%OF HRS DRILLED NO FLUID LOST PUMPING 10-15 BBL SWEEPS EVERY STAND,W/ 3-4% CAL CARB & CEADER FIBER , NUT SHELL MUD WT 8.5 VIS 30 NOV-D WATER
	17:00 - 17:30	0.50	DRLPRV	07	A	P	7465	RIG SERVICE
	17:30 - 0:00	6.50	DRLPRV	02	B	P	7465	DRILL /SLIDE / SURVEY / F/ 7,465' T/ 8,152'= 687' =105' FPH WOB 22,000-26,000 TOP DRIVE RPM 60-65 MUD MOTOR RPM 135 PUMPS 200 SPM = 586 GPM PUMP PRESSURE ON/OFF BTM 2,600/2200 TORQUE ON/OFF BTM 13,200/10100 PICK UP WT 200K SLACK OFF WT 115K ROT WT 155 SLIDE 0 IN 0 MIN. 0% OF FOOTAGE DRILLED, 0%OF HRS DRILLED NO FLUID LOST PUMPING 10-15 BBL SWEEPS EVERY STAND,W/ 3-4% CAL CARB & CEADER FIBER , NUT SHELL MUD WT 11.7 VIS 38 NOV-D WATER
8/3/2013	0:00 - 6:30	6.50	DRLPRV	02	B	P	8152	DRILL /SLIDE / SURVEY / F/ 8,152' T/ 8,540' TD = 355' = 59' FPH WOB 22,000-26,000 TOP DRIVE RPM 60-65 MUD MOTOR RPM 135 PUMPS 160 SPM = 469 GPM PUMP PRESSURE ON/OFF BTM 2,000/1,700 TORQUE ON/OFF BTM 13,200/10100 PICK UP WT 200,000 SLACK OFF WT 115,000 ROT WT 155,000 NO SLIDES 70 BBLS FLUID LOST PUMPING 10-15 BBL SWEEPS EVERY STAND,W/ 3-4% CAL CARB & CEDAR FIBER , NUT SHELL MUD WT 11.7 VIS 38 NOV-D WATER
	6:30 - 7:30	1.00	DRLPRV	05	C	P	8540	CIRCULATE FOR WIPER TRIP

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-12J4BS GREEN		Spud Date: 5/15/2012	
Project: UTAH-UINTAH	Site: NBU 1022-12O PAD		Rig Name No: PROPETRO 12/12, PIONEER 54/54
Event: DRILLING	Start Date: 4/25/2012		End Date: 8/4/2013
Active Datum: RKB @5,250.00usft (above Mean Sea Level)	UWI: SW/SE/0/10/S/22/E/12/0/0/26/PM/S/1249/E/0/2346/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:30 - 8:30	1.00	DRLPRV	06	E	P	8540	10 STAND WIPER TRIP
	8:30 - 10:00	1.50	DRLPRV	05	B	P	8540	CIRCULATE, RAISE WT FOR LOGS
	10:00 - 13:30	3.50	EVALPR	06	B	P	8540	TRIP OUT , L/D I DART MEASUREMENT SUBS , L/D MUD MOTOR & BIT
	13:30 - 14:00	0.50	EVALPR	07	A	P	8540	RIG SERVICE
	14:00 - 21:00	7.00	EVALPR	06	B	P	8540	P/U WEATHERFORD CWS LOGGING BHA & TOOL, TRIP IN HOLE FILLING PIPE EVERY 2000', GET PUMP RATE 2 BBLS, 4 BBLS 6 BBLS EVERY FILL
	21:00 - 23:00	2.00	EVALPR	11	C	P	8540	WASH 96' TO BOTTOM WITH 5' FILL,PULL UP 96' & DEPLOY CWS LOGGING TOOL 86' WITH BJ SERVICES, CIRC OUT GAS WITH RIG PUMP, PUMP PILL & START OUT OF HOLE
	23:00 - 0:00	1.00	EVALPR	11	C	P	8540	TRIP OUT WITH CWS LOGGING TOOL @ 30' PER MIN
8/4/2013	0:00 - 7:00	7.00	EVALPR	11	C	P	8540	TRIP OUT WITH CWS LOGGING TOOL @ 30' PER MIN , RIG DOWN LOGGERS
	7:00 - 7:30	0.50	CSGPRO	14	B	P	8540	PULL WEAR BUSHING
	7:30 - 8:30	1.00	CSGPRO	12	A	P	8540	RIG UP KIMZEYCASING EQUIP
	8:30 - 14:30	6.00	CSGPRO	12	C	P	8540	M/U FLOAT EQUIP,TEST FLOATS, RUN 41/2 CASING RUN 80 JTS N-80 11.6# LTC 4.5 CASING +1 CROSSOVER LTC/ DQX /114 JTS N-80 11.6# DQX 4.5 CASING+ RELATED TOOLS / BREAKING CIRCULATION @ SELECTED INTERVALS / LANDING CASING MANDREL IN BOWL W/ 65,000 @ 8,531' FOR CIRC & CEMENTING / FC @ 8,508' /MV MKR @ 6,423' X/0 @ 5,027'
	14:30 - 15:30	1.00	CSGPRO	05	D	P	8540	CIRC CASING, BOTTOMS UP 2/10 MUD CUT 10' FLARE, RIG DOWN KIMZEY / HSM W/ BJ
	15:30 - 18:00	2.50	CSGPRO	12	E	P	8540	INSTALL BJ CMT HEAD , TEST PUMP & LINES TO 4600 PSI, DROP BOTTOM PLUG PUMP 25 BBLS FW, PUMP 460 SKS LEAD CEMENT @ 12.5 PPG, 162 BBL SLURRY (PREM LITE II + .0.25 pps CELLO FLAKE + 5 pps KOL SEAL +0.4 bwocFL52+ .05 lb/sx STATIC FREE + 8% bwoc BENTONITE + .2% bwoc SODIUM META SILICATE + 0.35 % R-3 + 101.8% FRESH WATER / (10.44 gal/sx,1.98 yield) + 975 SX TAIL @ 14.3 ppg 229 BBL SLURRY (CLS G 50/50 POZ + 10% SALT + .005llbs/sx STATIC FREE + .2% R3 +0.5%bwocEC-1+ .002 GPS FP-6L + 2% BENTONITE + 58.9% FW / (5.94 gal/sx, 1.32 yield) / DROP TOP PLUG & DISPLACE W/ 132 BBLS H2O + ADDITIVES / PLUG DOWN @ 17:31 HOURS / FLOATS HELD W/ 1.5 BBLS H2O RETURNED TO INVENTORY/ GOOD CIRC THROUGH OUT / 22BBLS OF SPACER NO CEMENT TO SURFACE, LIFT PRESSURE @ 2,570 PSI / BUMP PRESSURE TO 3,275 PSI / TOP OF TAIL CEMENT CALCULATED @ 2,906 ' / RIG DOWN CMT EQUIPMENT
	18:00 - 18:30	0.50	CSGPRO	12	A	P	8540	SET PACK OFF W/ CAMERON
	18:30 - 19:30	1.00	CSGPRO	14	A	P	8540	NIPPLE DOWN BOPE , RIG RELEASE @ 19:30 8/4/2013

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	NBU 1022-12J4BS GREEN	**Wellbore No.**	OH
Well Name	NBU 1022-12J4BS	**Wellbore Name**	NBU 1022-12J4BS
Report No.	1	**Report Date**	10/7/2013
Project	UTAH-UINTAH	**Site**	NBU 1022-12O PAD
Rig Name/No.		**Event**	COMPLETION
Start Date	9/15/2013	**End Date**	10/22/2013
Spud Date	5/15/2012	**Active Datum**	RKB @5,250.00usft (above Mean Sea Level)
UWI	SW/SE/0/10/S/22/E/12/0/0/26/PM/S/1249/E/0/2346/0/0		

1.3 General

Contractor		**Job Method**		**Supervisor**	
Perforated Assembly		**Conveyed Method**			

1.4 Initial Conditions

Fluid Type		**Fluid Density**	
Surface Press		**Estimate Res Press**	
TVD Fluid Top		**Fluid Head**	
Hydrostatic Press		**Press Difference**	
Balance Cond	NEUTRAL		

1.5 Summary

Gross Interval	6,350.0 (usft)-8,411.0 (usft	**Start Date/Time**	10/7/2013 12:00AM
No. of Intervals	40	**End Date/Time**	10/7/2013 12:00AM
Total Shots	159	**Net Perforation Interval**	47.00 (usft)
Avg Shot Density	3.38 (shot/ft)	**Final Surface Pressure**	
		Final Press Date	

2 Intervals

2.1 Perforated Interval

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
10/7/2013 12:00AM	MESAVERDE/			6,350.0	6,353.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
10/7/2013 12:00AM	MESAVERDE/			6,692.0	6,695.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
10/7/2013 12:00AM	MESAVERDE/			6,908.0	6,909.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
10/7/2013 12:00AM	MESAVERDE/			6,917.0	6,918.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
10/7/2013 12:00AM	MESAVERDE/			6,954.0	6,955.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
10/7/2013 12:00AM	MESAVERDE/			6,972.0	6,973.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
10/7/2013 12:00AM	MESAVERDE/			6,995.0	6,996.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
10/7/2013 12:00AM	MESAVERDE/			7,028.0	7,029.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
10/7/2013 12:00AM	MESAVERDE/			7,148.0	7,149.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
10/7/2013 12:00AM	MESAVERDE/			7,170.0	7,171.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
10/7/2013 12:00AM	MESAVERDE/			7,242.0	7,243.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
10/7/2013 12:00AM	MESAVERDE/			7,251.0	7,252.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
10/7/2013 12:00AM	MESAVERDE/			7,291.0	7,292.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
10/7/2013 12:00AM	MESAVERDE/			7,314.0	7,315.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
10/7/2013 12:00AM	MESAVERDE/			7,320.0	7,321.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
10/7/2013 12:00AM	MESAVERDE/			7,350.0	7,351.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
10/7/2013 12:00AM	MESAVERDE/			7,376.0	7,377.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
10/7/2013 12:00AM	MESAVERDE/			7,409.0	7,410.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
10/7/2013 12:00AM	MESAVERDE/			7,432.0	7,433.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
10/7/2013 12:00AM	MESAVERDE/			7,464.0	7,465.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
10/7/2013 12:00AM	MESAVERDE/			7,510.0	7,511.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
10/7/2013 12:00AM	MESAVERDE/			7,538.0	7,539.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
10/7/2013 12:00AM	MESAVERDE/			7,603.0	7,604.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
10/7/2013 12:00AM	MESAVERDE/			7,628.0	7,629.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
10/7/2013 12:00AM	MESAVERDE/			7,678.0	7,680.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
10/7/2013 12:00AM	MESAVERDE/			7,730.0	7,732.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
10/7/2013 12:00AM	MESAVERDE/			7,754.0	7,756.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
10/7/2013 12:00AM	MESAVERDE/			7,823.0	7,824.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
10/7/2013 12:00AM	MESAVERDE/			7,853.0	7,854.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
10/7/2013 12:00AM	MESAVERDE/			7,873.0	7,874.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
10/7/2013 12:00AM	MESAVERDE/			7,892.0	7,893.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
10/7/2013 12:00AM	MESAVERDE/			7,940.0	7,941.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
10/7/2013 12:00AM	MESAVERDE/			7,992.0	7,993.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
10/7/2013 12:00AM	MESAVERDE/			8,002.0	8,003.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
10/7/2013 12:00AM	MESAVERDE/			8,189.0	8,190.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
10/7/2013 12:00AM	MESAVERDE/			8,263.0	8,264.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
10/7/2013 12:00AM	MESAVERDE/			8,334.0	8,335.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
10/7/2013 12:00AM	MESAVERDE/			8,360.0	8,361.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
10/7/2013 12:00AM	MESAVERDE/			8,366.0	8,367.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
10/7/2013 12:00AM	MESAVERDE/			8,410.0	8,411.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	

3 Plots

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-12J4BS GREEN		Spud Date: 5/15/2012	
Project: UTAH-UINTAH	Site: NBU 1022-12O PAD		Rig Name No: MILES 3/3
Event: COMPLETION	Start Date: 9/15/2013		End Date: 10/22/2013
Active Datum: RKB @5,250.00usft (above Mean Sea Level)	UWI: SW/SE/0/10/S/22/E/12/0/0/26/PM/S/1249/E/0/2346/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
9/15/2013	-							
10/2/2013	9:00 - 10:00	1.00	SUBSPR	52	B	P		FILL SURFACE CSG. MIRU CAMERON QUICK TEST. PRESSURE TEST CSG & FRAC VALVES 1ST PSI TEST T/ 7000 PSI. HELD FOR 15 MIN LOST 58 PSI. NO COMMUNICATION OR MIGRATION WITH SURFACE CSG BLEED OFF PSI. PRESSURE TEST 8 5/8 X 4 1/2 TO 539 PSI HELD FOR 5 MIN LOST -79 PSI,BLED PSI OFF, REINSTALLED POP OFF SWIFN NO PRESSURE ON SURFACE CASING FILLED SURFACE WITH 3 BBL H2O
10/4/2013	7:00 - 8:00	1.00	SUBSPR	37		P		PERF STG 1)PU 3 1/8 EXP GUN, 19 GM, .40 HOLE SIZE. RIH PERFWELL, AS PER PERF DESIGN. POOH. SWIFW
10/7/2013	7:00 - 7:15	0.25	FRAC	48		P		HSM-JSA
	7:15 - 17:30	10.25	FRAC	36	H	P		FRAC STG #1)WHP 1490 PSI, BRK 3672 PSI @ 3.9 BPM. ISIP 2335 PSI, FG. 0.72 ISIP 2383 PSI, FG. 0.73, NPI 48 PSI, X/O TO WL. SET CBP & PERF STG #2 AS DESIGNED, SWI, SDFN.
10/8/2013	7:00 - 7:15	0.25	FRAC	48		P		HSM-JSA
	7:15 - 17:30	10.25	FRAC	36	H	P		FRAC STG #2)WHP 1870 PSI, BRK 3426 PSI @ 3.5 BPM. ISIP 2342 PSI, FG. 0.73 ISIP 2590 PSI, FG. 0.77, NPI 248 PSI, X/O TO WL. SET CBP & PERF STG #3 AS DESIGNED, X/O TO FRAC. FRAC STG #3)WHP 2000 PSI, BRK 5668 PSI @ 12.2 BPM. ISIP 2763 PSI, FG. 0.8 ISIP 2538 PSI, FG. 0.77, NPI -225 PSI, SWI, SDFN.
10/9/2013	7:00 - 7:15	0.25	FRAC	48		P		HSM-JSA
	7:15 - 7:15	0.00	FRAC	36	H	P		SET CBP & PERF STG #4 AS DESIGNED, X/O TO FRAC. FRAC STG #4)WHP 759 PSI, BRK 2892 PSI @ 3.9 BPM. ISIP 1928 PSI, FG. 0.7 ISIP 2166 PSI, FG. 0.73, NPI 238 PSI, X/O TO WL. SET CBP & PERF STG #5 AS DESIGNED, X/O TO FRAC. FRAC STG #5)WHP 1665 PSI, BRK 4543 PSI @ 4.1 BPM. ISIP 2203 PSI, FG. 0.74 ISIP 2393 PSI, FG. 0.77, NPI 190 PSI, SWI, SDFN.
10/10/2013	7:00 - 7:15	0.25	FRAC	48		P		HSM-JSA

RECEIVED: Nov. 18, 2013

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-12J4BS GREEN		Spud Date: 5/15/2012	
Project: UTAH-UINTAH	Site: NBU 1022-12O PAD		Rig Name No: MILES 3/3
Event: COMPLETION	Start Date: 9/15/2013		End Date: 10/22/2013
Active Datum: RKB @5,250.00usft (above Mean Sea Level)	UWI: SW/SE/0/10/S/22/E/12/0/0/26/PM/S/1249/E/0/2346/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 15:35	8.33	FRAC	36	H	P		SET CBP & PERF STG #6 AS DESIGNED, X/O TO FRAC. FRAC STG #6)WHP 535 PSI, BRK 3547 PSI @ 3.7 BPM. ISIP 1894 PSI, FG. 0.71 ISIP 2363 PSI, FG. 0.78, NPI 469 PSI, X/O TO WL. SET CBP & PERF STG #7 AS DESIGNED, X/O TO FRAC.
	15:35 - 16:55	1.33	FRAC	46	E	Z		REPLACE DISCHARGE LATERAL
	16:55 - 18:30	1.58	FRAC	36	H	P		FRAC STG #7)WHP 1142 PSI, BRK 2701 PSI @ 3.8 BPM. ISIP 1391 PSI, FG. 0.65 ISIP 1559 PSI, FG. 0.68, NPI 168 PSI, X/O TO WL. SET KILL PLUG @ 6300', SWI, RDMO WL & FRAC EQUIP. TOTAL CLN FLUID=8384 BBLS TOTAL SAND=159067 LBS
10/21/2013	7:00 - 7:30	0.50	DRLOUT	48		P		HSM, PICK ING UP TBG OFF FLOAT.
	7:30 - 8:30	1.00	DRLOUT	30	A	P		RIGGED UP, ND WH NU BOPS, RU FLOOR & TBG EQUIP.
	8:30 - 15:00	6.50	DRLOUT	31	I	P		TALLY & PU 37/8 BIT, POBS, 1.875 X/N 150 JTS 23/8 J-55, L-80 PUP JT, 48 JTS 23/8 L-80. TAG UP @ 6279 ', RU DRLG EQUIP PREP TO D/O IN AM. SWI SDFN
10/22/2013	7:00 - 7:30	0.50	DRLOUT	48		P		HSM, DRILL OUT CBPS W/ SWIVEL & WATCHING FOR LEAKS.

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-12J4BS GREEN		Spud Date: 5/15/2012	
Project: UTAH-UINTAH	Site: NBU 1022-12O PAD		Rig Name No: MILES 3/3
Event: COMPLETION	Start Date: 9/15/2013		End Date: 10/22/2013
Active Datum: RKB @5,250.00usft (above Mean Sea Level)	UWI: SW/SE/0/10/S/22/E/12/0/0/26/PM/S/1249/E/0/2346/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:30 - 12:30	5.00	DRLOUT	44	C	P		BROKE CIRC CONV, TEST BOPS TO 3,000 PSI, RIH. C/O 20' SAND TAG 1ST PLUG @ 6300' DRL PLG IN 2 MIN, 0 PSI INCREASE RIH. C/O 25' SAND TAG 2ND PLUG @ 6725' DRL PLG IN 10 MIN, 400 PSI INCREASE RIH. C/O 20' SAND TAG 3RD PLUG @ 7059' DRL PLG IN 7 MIN, 500 PSI INCREASE RIH. C/O 20' SAND TAG 4TH PLUG @ 7340' DRL PLG IN 6 MIN, 400 PSI INCREASE RIH. C/O 30' SAND TAG 5TH PLUG @ 7569' DRL PLG IN 5 MIN, 300 PSI INCREASE RIH. C/O 30' SAND TAG 6TH PLUG @ 7786' DRL PLG IN 8 MIN, 600 PSI INCREASE RIH. C/O 30' SAND TAG 7TH PLUG @ 8036' DRL PLG IN 5 MIN, 600 PSI INCREASE RIH. C/O TO 8482', CIRC CLN, RD SWIVEL, L/D 22 JTS, LAND TBG, ND BOPS NU WH, TEST FLOW LINE, TO 3,000 PSI, PUMPED OFF BIT, TURN WELL TO FB CREW. RIGGED DOWN.FINAL KB = 19' 41/16 HANGER = .83' (SURFACE VALVE OPEN JTS 95 23/8 L-80 = 3016.90 SICP 1850 FTP 100 6' L-80 PUP JT = 6.13' 150 JTS 23/8 J-55 = 4747.96' POBS W/ 1.875 X/N = 2.20' EOT @ 7793.02' TWTR 8639 BBLS TWR 1000 BBLS TWLTR 7639 BBLS 315 JTS HAULED OUT, 150 J-55, 165 L-80. 245 LANDED 70 TO RETURN, L-80 (2 BAD)
	12:30 - 12:30	0.00	DRLOUT	50				WELL TURNED TO SALES @ 1200 HR ON 10/22/2013. 4500 MCFD, 1560 BWPD, FCP 2208#, FTP 1980#, 20/64" CK.

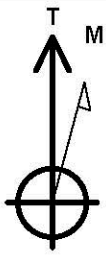
API Well Number: 43047519600000

Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: NBU 1022-12O PAD
Well: NBU 1022-12J4BS
Wellbore: OH
Design: OH

Scientific Drilling

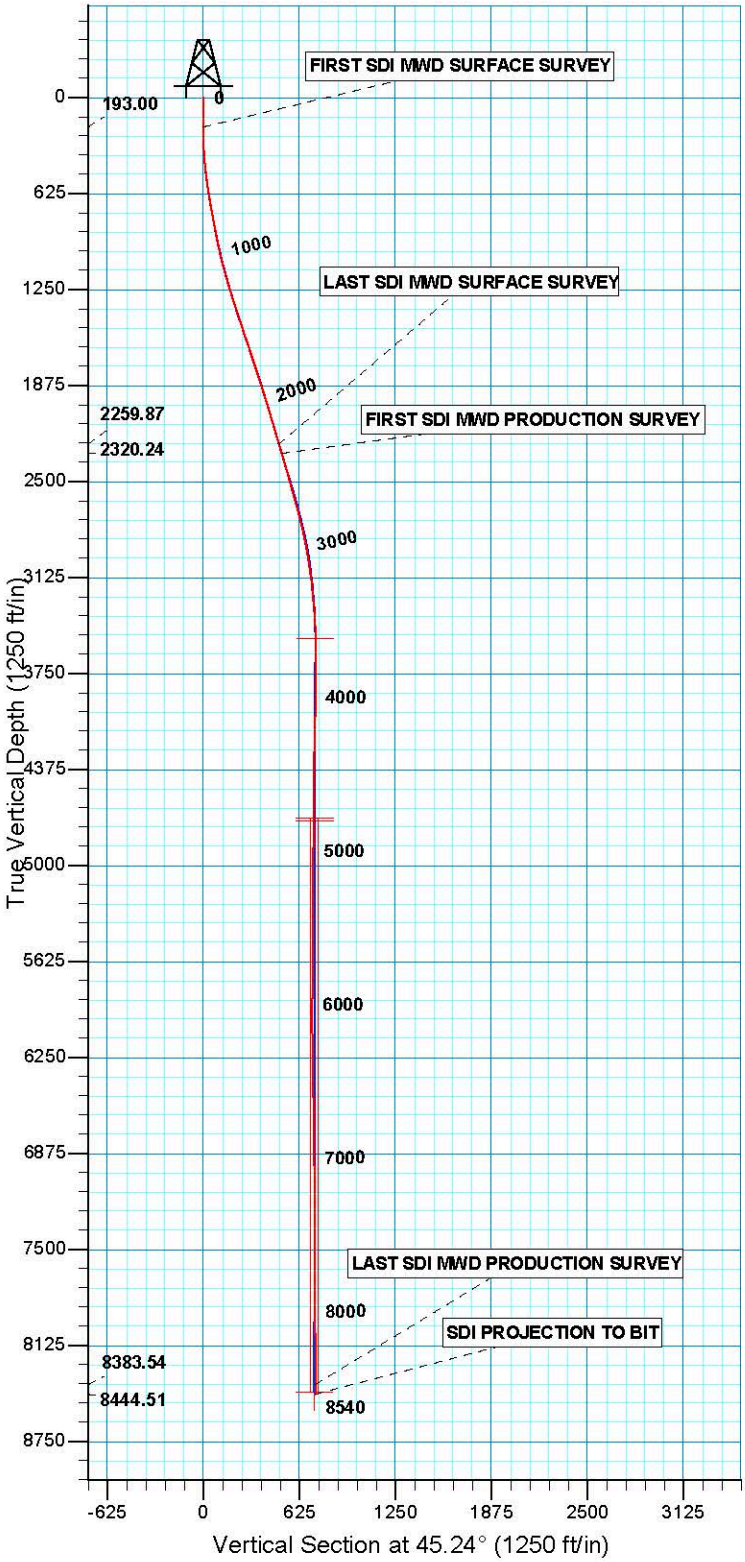
Anadarko Petroleum Corporation

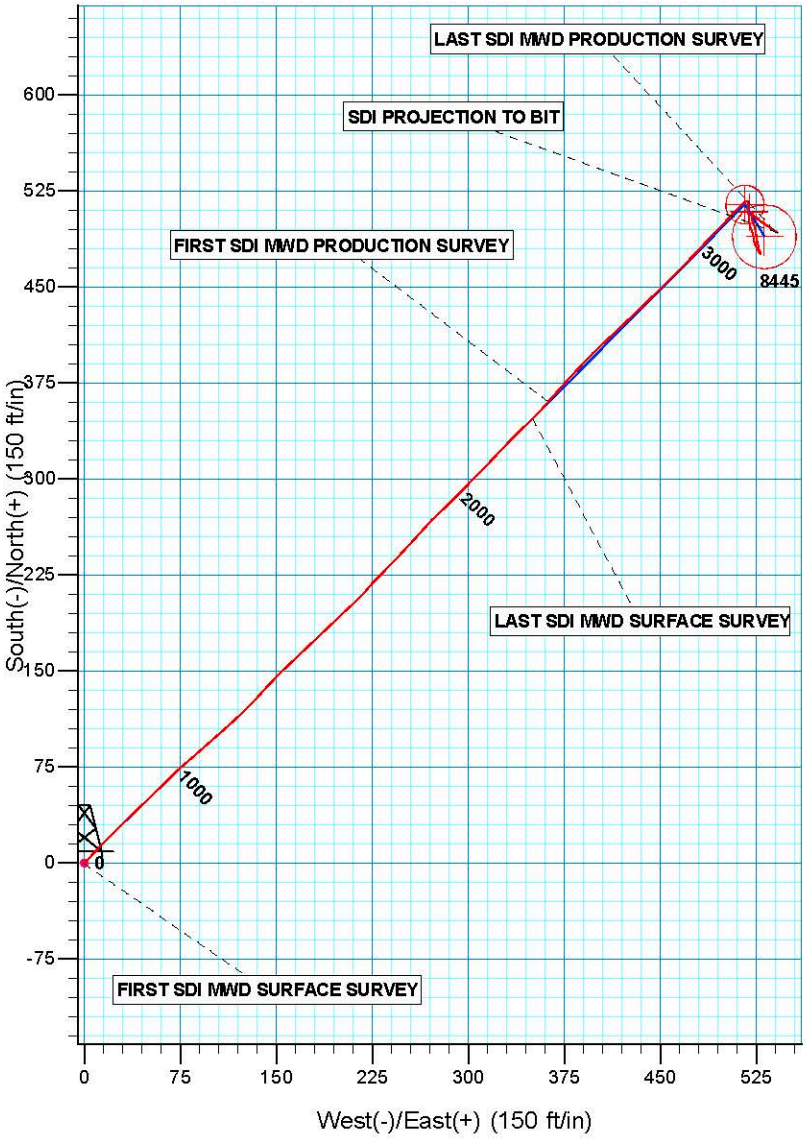
WELL DETAILS: NBU 1022-12J4BS					
GL 5231 & KB 19 @ 5250.00ft (PIONEER 54)					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14515442.24	2092551.18	39.959654	-109.386557



Azimuths to True North
Magnetic North: 11.00°

Magnetic Field
Strength: 52301.2snT
Dip Angle: 65.85°
Date: 2011/08/26
Model: IGRF2010





PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N	
Geodetic System:	Universal Transverse Mercator (US Survey Feet)
Datum:	NAD 1927 (NADCON CONUS)
Ellipsoid:	Clarke 1866
Zone:	Zone 12N (114 W to 108 W)
Location:	SECTION 12 T10S R22E
System Datum:	Mean Sea Level

Design: OH (NBU 1022-12J4BS/OH)
Created By: Daniel Kendall Date: 11:12, August 08 2013

Scientific Drilling

US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N
NBU 1022-12O PAD
NBU 1022-12J4BS

OH

Design: OH

Standard Survey Report

08 August, 2013

Anadarko Petroleum Corporation

RECEIVED: Nov. 18, 2013

Scientific Drilling

SDI
Survey Report

Anadarko Petroleum Corporation

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Well NBU 1022-12J4BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	GL 5231 & KB 19 @ 5250.00ft (PIONEER 54)
Site:	NBU 1022-12O PAD	**MD Reference:**	GL 5231 & KB 19 @ 5250.00ft (PIONEER 54)
Well:	NBU 1022-12J4BS	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.1 Single User Db

Project UTAH - UTM (feet), NAD27, Zone 12N

Map System:	Universal Transverse Mercator (US Survey Feet)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 12N (114 W to 108 W)		

Site NBU 1022-12O PAD, SECTION 12 T10S R22E

Site Position:		**Northing:**	14,515,442.24 usft	**Latitude:**	39.959654
From:	Lat/Long	**Easting:**	2,092,551.18 usft	**Longitude:**	-109.386557
Position Uncertainty:	0.00 ft	**Slot Radius:**	13.200 in	**Grid Convergence:**	1.04 °

Well NBU 1022-12J4BS, 1249 FSL 2346 FEL

Well Position	**+N/-S**	0.00 ft	**Northing:**	14,515,442.24 usft	**Latitude:**	39.959654
	+E/-W	0.00 ft	**Easting:**	2,092,551.18 usft	**Longitude:**	-109.386557
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	5,231.00 ft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2011/08/26	11.00	65.85	52,301

Design OH

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	45.24

Survey Program **Date** 2013/08/08

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
15.00	2,327.00	Survey #1 SDI MWD SURFACE (OH)	SDI MWD	SDI MWD - Standard ver 1.0.1
2,390.00	8,540.00	Survey #2 SDI MWD PRODUCTION (OH)	SDI MWD	SDI MWD - Standard ver 1.0.1

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15.00	0.00	0.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00
193.00	0.44	250.41	193.00	-0.23	-0.64	-0.62	0.25	0.25	0.00
FIRST SDI MWD SURFACE SURVEY									
281.00	2.02	49.58	280.98	0.66	0.22	0.62	2.77	1.80	180.88
364.00	4.22	43.08	363.85	3.84	3.42	5.13	2.68	2.65	-7.83
454.00	6.16	43.08	453.48	9.79	8.98	13.27	2.16	2.16	0.00
544.00	7.47	45.36	542.84	17.43	16.44	23.94	1.49	1.46	2.53
634.00	8.87	43.98	631.93	26.53	25.42	36.73	1.57	1.56	-1.53
724.00	10.20	47.38	720.68	36.92	36.10	51.63	1.60	1.48	3.78

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Scientific Drilling

SDI
Survey Report

Anadarko Petroleum Corporation

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Well NBU 1022-12J4BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	GL 5231 & KB 19 @ 5250.00ft (PIONEER 54)
Site:	NBU 1022-12O PAD	**MD Reference:**	GL 5231 & KB 19 @ 5250.00ft (PIONEER 54)
Well:	NBU 1022-12J4BS	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.1 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
814.00	10.90	46.42	809.16	48.18	48.13	68.10	0.80	0.78	-1.07
904.00	11.23	44.61	897.49	60.29	60.45	85.38	0.53	0.37	-2.01
994.00	12.31	46.77	985.60	73.10	73.60	103.73	1.30	1.20	2.40
1,084.00	13.91	49.97	1,073.25	86.63	88.87	124.10	1.95	1.78	3.56
1,174.00	15.12	48.79	1,160.37	101.32	105.99	146.60	1.38	1.34	-1.31
1,264.00	16.80	45.01	1,246.90	118.25	124.02	171.32	2.19	1.87	-4.20
1,354.00	17.76	42.73	1,332.84	137.53	142.53	198.04	1.31	1.07	-2.53
1,444.00	17.85	46.86	1,418.54	157.04	161.91	225.55	1.41	0.10	4.59
1,534.00	18.73	45.98	1,503.99	176.52	182.37	253.78	1.02	0.98	-0.98
1,624.00	19.96	46.77	1,588.90	197.08	203.95	283.59	1.40	1.37	0.88
1,714.00	18.11	42.90	1,673.98	217.85	224.67	312.93	2.49	-2.06	-4.30
1,804.00	17.67	43.69	1,759.63	237.98	243.62	340.56	0.56	-0.49	0.88
1,894.00	17.76	42.20	1,845.36	258.02	262.28	367.92	0.51	0.10	-1.66
1,984.00	16.88	46.51	1,931.29	277.18	280.98	394.69	1.73	-0.98	4.79
2,074.00	16.71	44.31	2,017.45	295.44	299.50	420.69	0.73	-0.19	-2.44
2,164.00	16.36	42.81	2,103.73	313.99	317.15	446.29	0.61	-0.39	-1.67
2,254.00	16.80	45.89	2,189.99	332.35	335.10	471.96	1.09	0.49	3.42
2,327.00	16.80	44.75	2,259.87	347.18	350.11	493.06	0.45	0.00	-1.56
LAST SDI MWD SURFACE SURVEY									
2,390.00	16.44	41.33	2,320.24	360.34	362.40	511.06	1.65	-0.57	-5.43
FIRST SDI MWD PRODUCTION SURVEY									
2,484.00	15.39	41.94	2,410.64	379.61	379.52	536.78	1.13	-1.12	0.65
2,578.00	15.56	45.11	2,501.23	397.78	396.79	561.84	0.92	0.18	3.37
2,673.00	16.00	46.78	2,592.65	415.74	415.36	587.67	0.67	0.46	1.76
2,769.00	15.56	46.16	2,685.03	433.72	434.29	613.77	0.49	-0.46	-0.65
2,863.00	13.54	46.07	2,776.01	450.09	451.31	637.38	2.15	-2.15	-0.10
2,958.00	12.22	44.93	2,868.62	464.92	466.42	658.56	1.41	-1.39	-1.20
3,053.00	10.02	41.68	2,961.83	478.22	479.02	676.86	2.41	-2.32	-3.42
3,148.00	8.27	44.14	3,055.62	489.29	489.27	691.95	1.89	-1.84	2.59
3,243.00	6.51	44.31	3,149.83	498.05	497.79	704.16	1.85	-1.85	0.18
3,338.00	5.19	44.67	3,244.33	504.96	504.58	713.84	1.39	-1.39	0.38
3,434.00	3.87	40.10	3,340.03	510.53	509.72	721.41	1.42	-1.38	-4.76
3,529.00	2.73	50.29	3,434.87	514.42	513.52	726.86	1.34	-1.20	10.73
3,623.00	1.67	54.77	3,528.80	516.65	516.36	730.44	1.14	-1.13	4.77
3,716.00	0.44	81.76	3,621.78	517.48	517.82	732.06	1.39	-1.32	29.02
3,811.00	0.62	159.10	3,716.78	517.05	518.37	732.15	0.71	0.19	81.41
3,905.00	1.14	182.92	3,810.77	515.64	518.50	731.25	0.67	0.55	25.34
4,000.00	1.25	182.59	3,905.75	513.66	518.41	729.79	0.12	0.12	-0.35
4,096.00	1.67	175.53	4,001.72	511.22	518.47	728.12	0.48	0.44	-7.35
4,191.00	1.32	177.73	4,096.68	508.75	518.62	726.48	0.37	-0.37	2.32
4,285.00	1.85	175.45	4,190.65	506.15	518.78	724.77	0.57	0.56	-2.43
4,379.00	1.41	164.02	4,284.61	503.53	519.22	723.23	0.58	-0.47	-12.16
4,473.00	1.67	176.94	4,378.58	501.05	519.61	721.77	0.46	0.28	13.74

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Scientific Drilling

SDI
Survey Report

Anadarko Petroleum Corporation

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Well NBU 1022-12J4BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	GL 5231 & KB 19 @ 5250.00ft (PIONEER 54)
Site:	NBU 1022-12O PAD	**MD Reference:**	GL 5231 & KB 19 @ 5250.00ft (PIONEER 54)
Well:	NBU 1022-12J4BS	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.1 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,568.00	1.58	171.05	4,473.54	498.37	519.89	720.08	0.20	-0.09	-6.20
4,662.00	0.44	164.99	4,567.52	496.74	520.19	719.14	1.22	-1.21	-6.45
4,757.00	0.53	166.31	4,662.52	495.97	520.38	718.73	0.10	0.09	1.39
4,851.00	0.79	141.17	4,756.51	495.04	520.89	718.44	0.41	0.28	-26.74
4,946.00	0.70	159.89	4,851.50	493.98	521.50	718.13	0.27	-0.09	19.71
5,041.00	1.41	172.28	4,946.49	492.28	521.86	717.19	0.78	0.75	13.04
5,136.00	1.14	160.51	5,041.46	490.23	522.33	716.08	0.39	-0.28	-12.39
5,231.00	1.23	160.42	5,136.44	488.38	522.99	715.24	0.09	0.09	-0.09
5,325.00	0.35	231.70	5,230.44	487.25	523.10	714.53	1.24	-0.94	75.83
5,419.00	0.35	223.00	5,324.43	486.86	522.68	713.96	0.06	0.00	-9.26
5,514.00	0.62	156.81	5,419.43	486.18	522.69	713.48	0.61	0.28	-69.67
5,608.00	0.97	154.27	5,513.42	484.99	523.23	713.03	0.37	0.37	-2.70
5,701.00	0.97	154.88	5,606.41	483.57	523.91	712.51	0.01	0.00	0.66
5,796.00	1.23	153.65	5,701.39	481.93	524.70	711.92	0.27	0.27	-1.29
5,891.00	1.23	154.18	5,796.37	480.10	525.60	711.26	0.01	0.00	0.56
5,986.00	1.14	150.13	5,891.35	478.36	526.51	710.69	0.13	-0.09	-4.26
6,080.00	1.49	148.73	5,985.32	476.51	527.61	710.16	0.37	0.37	-1.49
6,175.00	0.26	34.29	6,080.31	475.63	528.38	710.09	1.70	-1.29	-120.46
6,270.00	1.76	339.45	6,175.30	477.17	527.99	710.90	1.71	1.58	-57.73
6,364.00	1.41	341.38	6,269.26	479.62	527.11	712.00	0.38	-0.37	2.05
6,459.00	2.11	347.89	6,364.22	482.44	526.37	713.46	0.77	0.74	6.85
6,553.00	2.46	346.57	6,458.14	486.09	525.54	715.44	0.38	0.37	-1.40
6,649.00	2.29	351.49	6,554.06	489.99	524.78	717.65	0.28	-0.18	5.13
6,743.00	1.49	359.49	6,648.01	493.07	524.49	719.61	0.89	-0.85	8.51
6,837.00	2.02	344.28	6,741.96	495.89	524.03	721.27	0.75	0.56	-16.18
6,931.00	1.85	334.27	6,835.91	498.85	522.92	722.57	0.40	-0.18	-10.65
7,026.00	0.88	326.79	6,930.88	500.84	521.85	723.21	1.04	-1.02	-7.87
7,121.00	1.32	349.47	7,025.86	502.53	521.25	723.97	0.64	0.46	23.87
7,216.00	0.97	9.60	7,120.85	504.40	521.19	725.24	0.56	-0.37	21.19
7,310.00	0.70	6.96	7,214.84	505.75	521.39	726.34	0.29	-0.29	-2.81
7,405.00	0.35	341.74	7,309.83	506.60	521.37	726.92	0.43	-0.37	-26.55
7,500.00	0.35	15.49	7,404.83	507.16	521.36	727.31	0.21	0.00	35.53
7,595.00	0.70	120.25	7,499.83	507.15	521.94	727.71	0.90	0.37	110.27
7,690.00	1.23	137.83	7,594.81	506.10	523.12	727.81	0.63	0.56	18.51
7,784.00	1.49	135.54	7,688.79	504.48	524.65	727.76	0.28	0.28	-2.44
7,879.00	1.49	124.49	7,783.76	502.90	526.54	727.98	0.30	0.00	-11.63
7,974.00	1.51	125.68	7,878.72	501.47	528.57	728.42	0.04	0.02	1.25
8,068.00	1.41	129.04	7,972.69	500.02	530.48	728.75	0.14	-0.11	3.57
8,163.00	1.23	128.34	8,067.67	498.65	532.18	729.00	0.19	-0.19	-0.74
8,258.00	1.41	120.34	8,162.64	497.42	533.99	729.42	0.27	0.19	-8.42
8,351.00	1.67	120.34	8,255.61	496.16	536.15	730.07	0.28	0.28	0.00
8,446.00	1.85	123.59	8,350.56	494.61	538.62	730.73	0.22	0.19	3.42
8,479.00	2.02	127.28	8,383.54	493.97	539.53	730.92	0.64	0.52	11.18

LAST SDI MWD PRODUCTION SURVEY

Scientific Drilling

SDI
Survey Report

Anadarko Petroleum Corporation

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Well NBU 1022-12J4BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	GL 5231 & KB 19 @ 5250.00ft (PIONEER 54)
Site:	NBU 1022-12O PAD	**MD Reference:**	GL 5231 & KB 19 @ 5250.00ft (PIONEER 54)
Well:	NBU 1022-12J4BS	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.1 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,540.00	2.02	127.28	8,444.51	492.67	541.24	731.22	0.00	0.00	0.00
SDI PROJECTION TO BIT									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
DTGT_NBU 1022-12J4E	0.00	0.00	3,524.10	514.51	516.14	14,515,966.01	2,093,057.93	39.961067	-109.384716
- actual wellpath misses target center by 2.06ft at 3618.25ft MD (3524.05 TVD, 516.56 N, 516.25 E)									
- Circle (radius 15.00)									
TOC @ 4699.00 NBU 1(	0.00	0.00	4,714.00	508.61	519.68	14,515,960.17	2,093,061.58	39.961051	-109.384703
- actual wellpath misses target center by 13.16ft at 4808.35ft MD (4713.87 TVD, 495.48 N, 520.59 E)									
- Point									
PBHL_NBU 1022-12J4B	0.00	0.00	8,433.00	489.51	531.14	14,515,941.28	2,093,073.38	39.960998	-109.384662
- actual wellpath misses target center by 10.35ft at 8528.28ft MD (8432.80 TVD, 492.92 N, 540.91 E)									
- Circle (radius 25.00)									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
193.00	193.00	-0.23	-0.64	FIRST SDI MWD SURFACE SURVEY
2,327.00	2,259.87	347.18	350.11	LAST SDI MWD SURFACE SURVEY
2,390.00	2,320.24	360.34	362.40	FIRST SDI MWD PRODUCTION SURVEY
8,479.00	8,383.54	493.97	539.53	LAST SDI MWD PRODUCTION SURVEY
8,540.00	8,444.51	492.67	541.24	SDI PROJECTION TO BIT

Checked By: _____ Approved By: _____ Date: _____